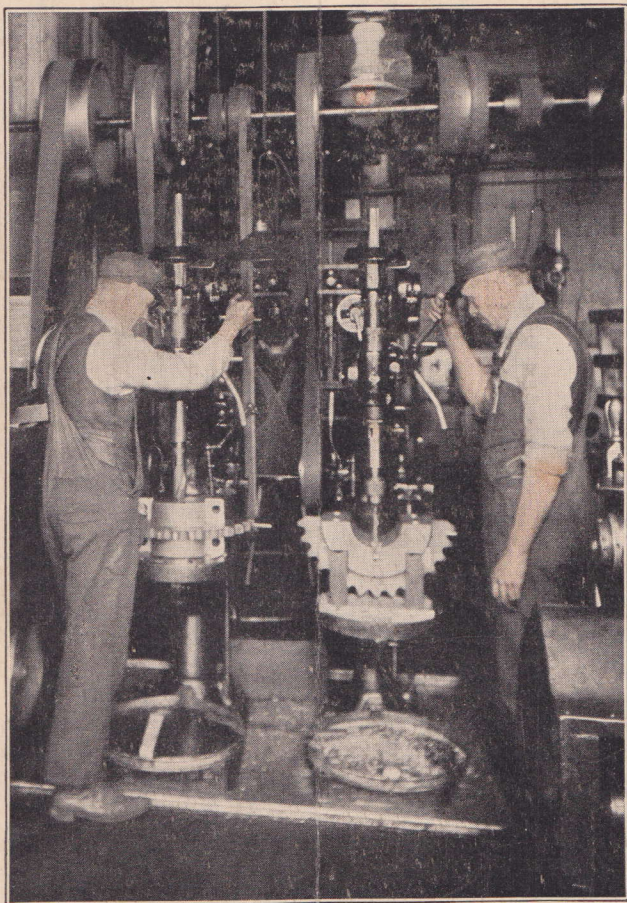


**IF IT IS A MACHINE SHOP JOB  
LET WALLACE DO IT!**



*Keep this Catalogue  
for future reference*

BULLETIN NO. 14

**WALLACE SUPPLIES MFG. CO.**

CONTRACT WORK DEPARTMENT

412-420 Orleans St.

-

-

CHICAGO, ILL.



The entire advertisement is framed by a decorative border composed of numerous line drawings of different types of springs. These include coiled helical springs, zig-zag shaped springs, and various hook and loop configurations, all arranged in a circular pattern around the central text.

# SPRINGS

WE make them for all purposes out of High Carbon Spring Wire, Phosphor Bronze Wire, Music Wire, Brass Wire, etc., etc.

For Electrical and Agricultural Machinery, Gas Engine and Automobile Springs, Upholsterer's Springs, Stretcher and Bolster Springs. Send us a sample or drawing of spring wanted.

SPRINGS FOR MACHINERY  
A SPECIALTY

## WIRE

Let Us Quote You on

Music Wire  
Spring Steel Wire  
Oil Tempered  
Wire

Phosphor Bronze  
Spring Wire  
Brass Spring Wire  
Coppered Spring Wire

Wire in all grades, Coppered, Tinned and Galvanized. Can furnish in coils or straightened and cut to any desired length. Large stock carried.



## CONTRACT MACHINE WORK DEPARTMENT

Let us submit you a bid on any machine shop work which can be done on any of the following equipment:

SCREW MACHINES  
LATHES                  MILLERS                  GRINDERS  
         SHAPERS                  PUNCH PRESSES  
                                 DRILL PRESSES  
BROACHING MACHINES                  PIPE BENDERS  
         BAR BENDERS                  TUBE BENDERS  
                                 ALSO  
GENERAL ASSEMBLY AND BENCH WORK

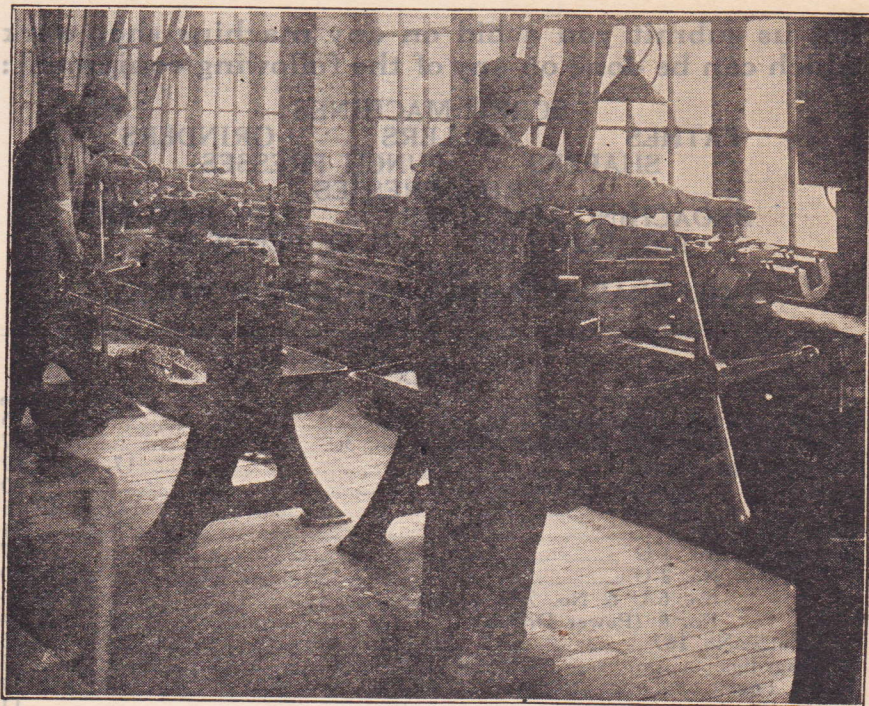
### INDEX

	Page
Angle & Eye Bending Machine No. 10.....	25
Angle Iron Cutting & Notching Machine No. 3.....	37
Ball Bearings, Radial.....	17, 18 & 19
"    "    Special & Standard.....	20
"    "    Thrust.....	14, 15 & 16
Balls, Steel.....	21
Bar Bender, No. 1-U.....	27
"    "    No. 2-U.....	28 & 29
"    "    No. 6-U & No. 7-U.....	32 & 33
"    "    No. 8 (Power Driven).....	24
"    Cutter No. 167.....	35
Bending Jigs.....	13
Bench Legs.....	37
"    Planer,.....	11
"    Saw.....	10
Cabinets, Steel.....	41 & 48
Combination Angle & Eye Bending Machine No. 10.....	25
Drain Pipe Cleaner.....	12
Eye Bending Machines, Nos. 1, 2 & 3.....	26
Gears.....	9
Gongs, Crane.....	22
"    Rotary.....	23
Gong Shells.....	23
Gongs Trip.....	22
Pipe Bending Machines.....	34
Portable Rack (Steel), Type "D".....	46
Punches (Hand), Ball Bearing.....	38
Punch, "Junior No. 5".....	37
Racks, For storing steel bars, tubes, etc.....	47
Racks, Portable.....	46
Ring Bending Machine No. 2.....	30 & 31
Rod Cutter.....	36
Shear & Punch, Combined.....	36
Shelf Brackets (Steel), Type "A".....	42
"    Construction,    "    "A".....	43
"    "    "    "    "B".....	44
"    "    "    "    "C".....	45
Splitting Shear.....	36
Stools, Steel.....	39
Tables, ".....	49
Trucks, ".....	40
Twisting Machine.....	13



*At the Wallace Plant*

## SCREW MACHINE DEPARTMENT



### HAND SCREW MACHINES

**SPINDLE CAPACITY:** All sizes of Bars up to a maximum of  $2\frac{1}{2}$  in. round.

**CHUCKING CAPACITY:** Up to a maximum of 11 inches diameter.

We are prepared to give you good service in our *Screw Machine Department* for screws and other parts within the capacity of machines above specified.

Please send us samples or blue prints showing details of work wanted. If a sample is furnished it will be necessary to state minimum and maximum tolerances permissible.

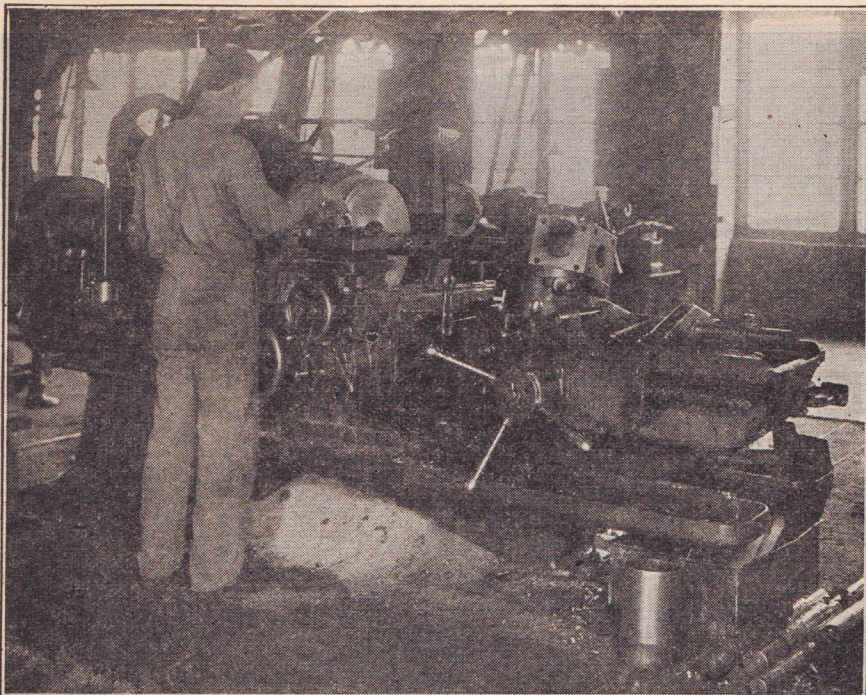
Be sure to state maximum number of pieces of each kind you are prepared to order at one time.

**WE SOLICIT YOUR ORDERS FOR QUANTITY PRODUCTION.**



*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT

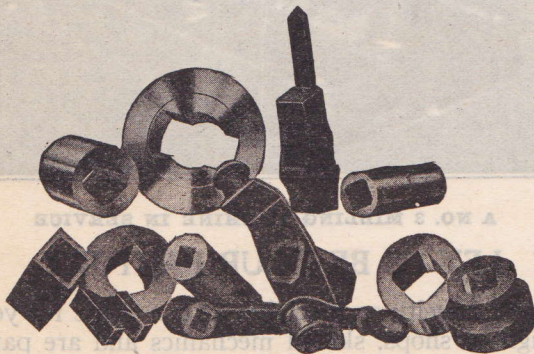


### 24 INCH HEAVY DUTY GISHOLT TURRET LATHE

This machine will take bar stock up to 6 inches diameter through spindle, and has a chucking capacity up to 24 inches diameter.

Send us blue prints showing details of work you require; also, please state maximum quantity you will order at one time.

## BROACHING MACHINE DEPARTMENT



### Group of Sample Square Holes Broached on Our Broaching Machines.

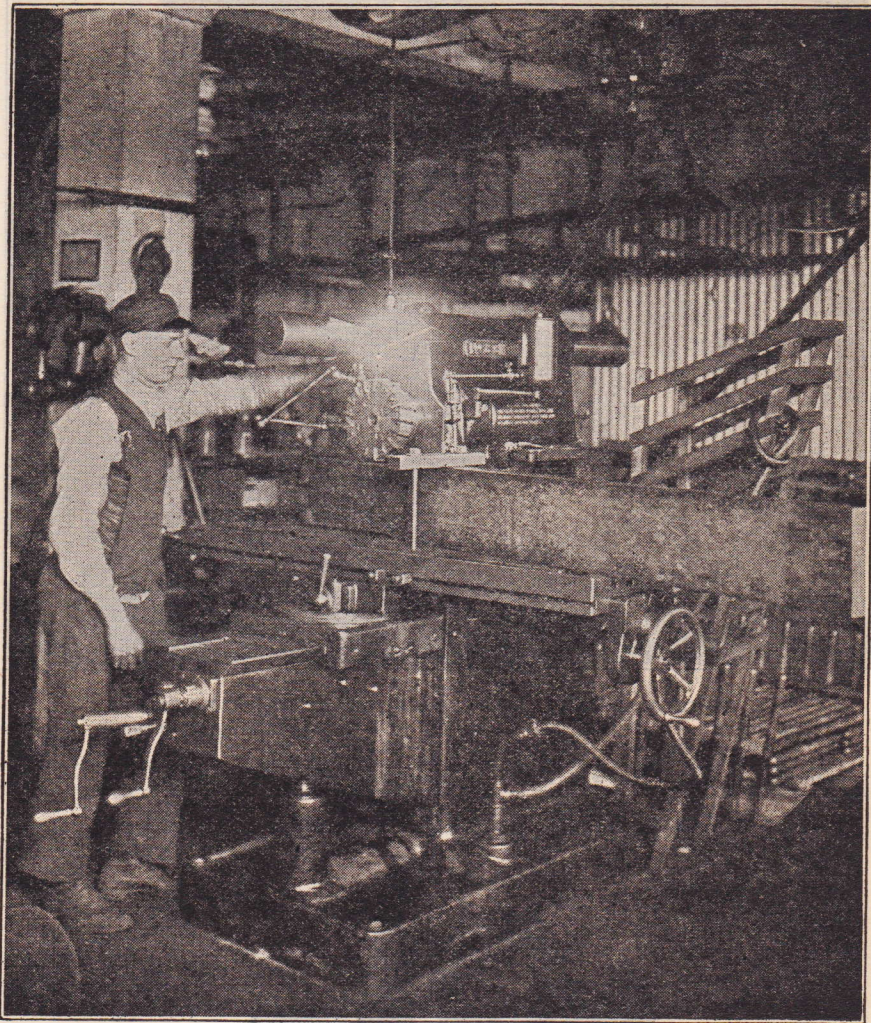
Most of the samples shown on above illustration are broached from drilled holes. Some require two Broaches and others only one, dependent upon their length and size.

**WE SOLICIT YOUR ORDERS FOR QUANTITY PRODUCTION.**



*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT



A NO. 3 MILLING MACHINE IN SERVICE

### LET US BE YOUR FACTORY

Have you a novelty or specialty we can make for you? We have clean, well lighted shops, skilled mechanics and are particularly well equipped for making hardware specialties of cast or malleable iron, brass or steel stampings.

**WE SOLICIT YOUR ORDERS FOR QUANTITY PRODUCTION.**

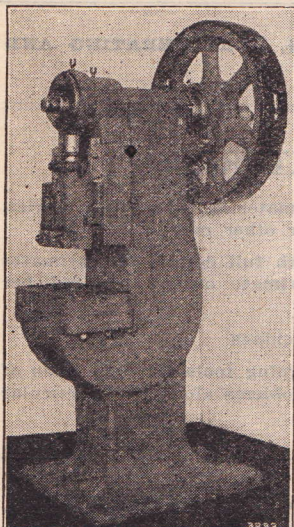


*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT



**A BATCH OF STAMPING READY FOR SHIPMENT**



### PUNCH PRESS WORK

We are prepared to submit estimate on your requirements for stampings to be made of SHEET STEEL, BRASS, COPPER, GALVANIZED SHEETS, ETC.; ALSO, FORMATIONS IN WIRE, RODS OR FLAT BARS.

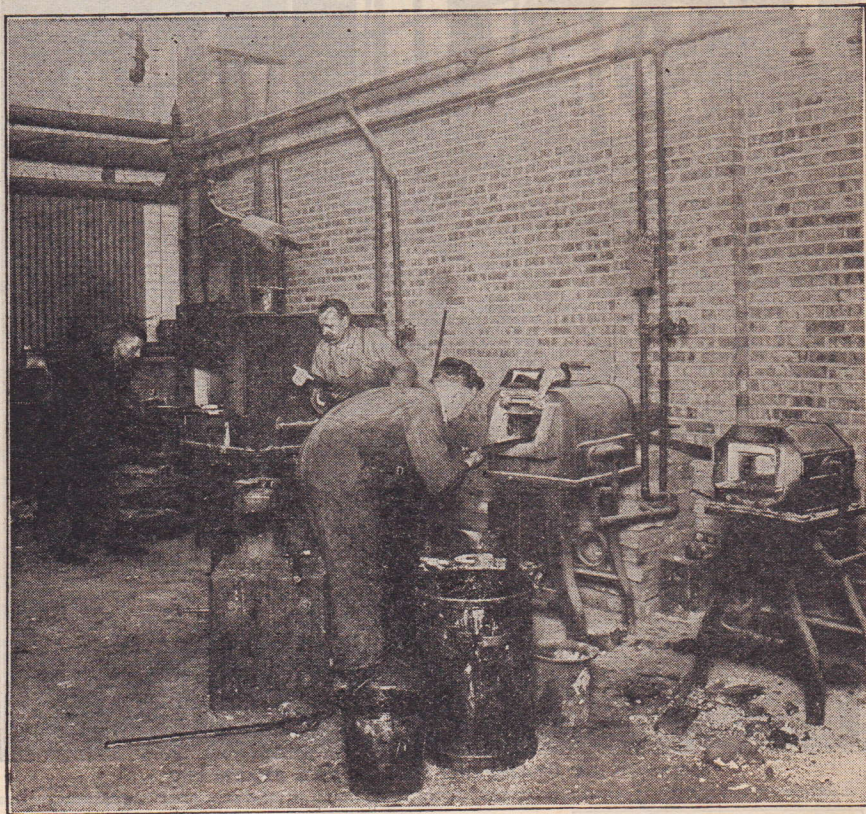
**Please send us samples or detail drawings.**

**WE SOLICIT YOUR ORDERS  
FOR QUANTITY PRODUCTION.**



*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT



**GAS FURNACES FOR LIGHT FORGING, WELDING, HEAT TREATING AND TEMPERING**

### **SPECIAL TOOLS AND FIXTURES**

for forming special shapes from flat, round or square material, tubes, pipe, angles, tees or special sections made of brass, steel, copper or other metals.

Please submit blue prints, samples or sketches with full details for estimates of cost of equipment and production. State approximate output required per day of eight hours.

We can furnish either hand or power operated machines.

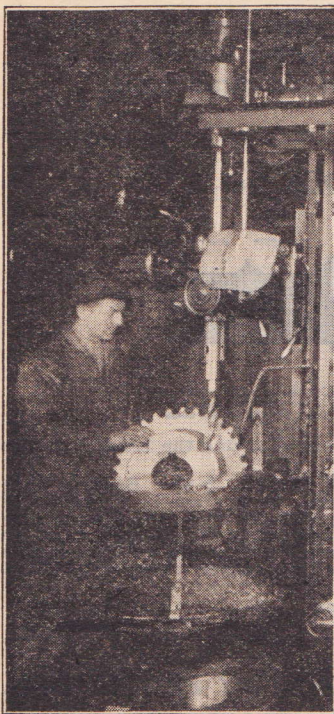
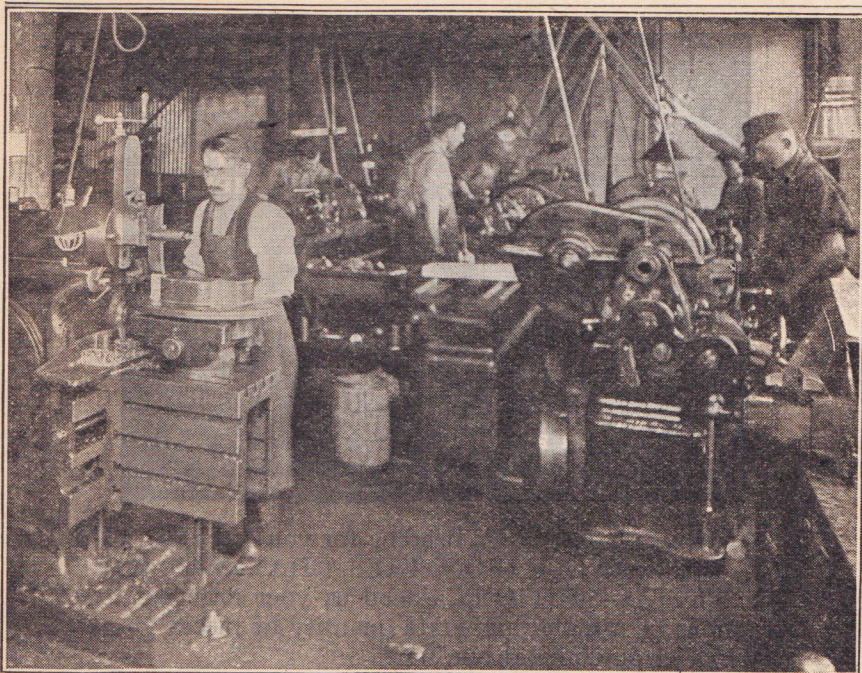
We have had over 20 years of experience in designing tools for this class of work, and will be glad to study your manufacturing problems along this particular line.

**WE SOLICIT YOUR ORDERS FOR QUANTITY PRODUCTION.**



*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT.



### Views of Our SHOP EQUIPMENT Consisting of

SHAPERS, LATHES AND  
DRILL PRESSES OF VARI-  
OUS SIZES AND KINDS.

LATHES UP TO 24 INCH  
SWING.

**WE SOLICIT YOUR ORDERS  
FOR QUANTITY PRODUCTION.**



*At the Wallace Plant*

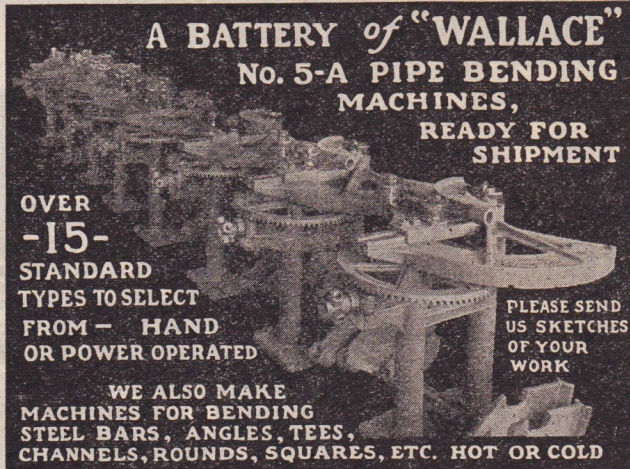
**PIPE BENDING DEPARTMENT**

**A BATTERY of "WALLACE"**  
**No. 5-A PIPE BENDING**  
**MACHINES,**  
**READY FOR**  
**SHIPMENT**

**OVER**  
**-15-**  
**STANDARD**  
**TYPES TO SELECT**  
**FROM - HAND**  
**OR POWER OPERATED**

**WE ALSO MAKE**  
**MACHINES FOR BENDING**  
**STEEL BARS, ANGLES, TEES,**  
**CHANNELS, ROUNDS, SQUARES, ETC. HOT OR COLD**

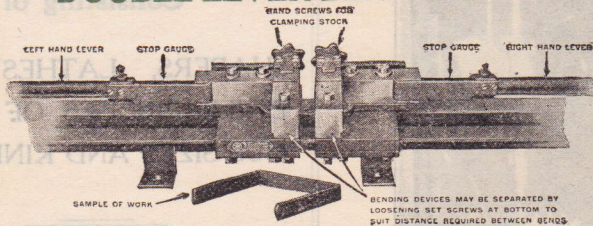
**PLEASE SEND**  
**US SKETCHES**  
**OF YOUR**  
**WORK**



We are equipped to do bending for you of PIPE, TUBING, BARS, ANGLE IRON, TEES, CHANNELS, WIRE, OR SPECIAL SECTIONS. Send us your drawings, specifications or samples and state quantity of pieces you are prepared to purchase at one time.

We build both hand and power driven machines for this class of work and will be glad to either furnish you a machine or do the bending for you on a contract basis.

**DOUBLE-LEVER BENDER No. 2.**



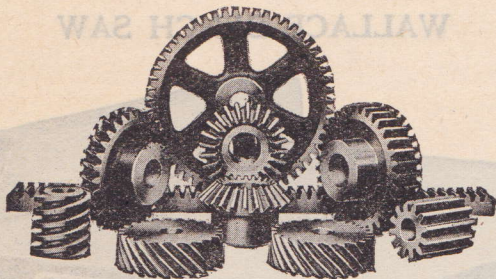
For making a right- and a left-hand bend without resetting the bending device or removing the stock. Weight, 150 lbs. net.

This machine is practically a combination of two No. 2 Bar Benders (one right-hand and one left-hand). The object of this construction is to admit of making two bends in a piece of stock (see sample of work in above illustration) without resetting the machines. Bending devices are mounted on long rails, so that they can be separated to make bends any distance apart up to 5 feet, but this can be materially increased if desired by making the rails longer, to order, at slight additional cost.

**Price Upon Application**

**WE SOLICIT YOUR ORDERS FOR QUANTITY PRODUCTION.**





# STANDARDIZED GEARS

300,000

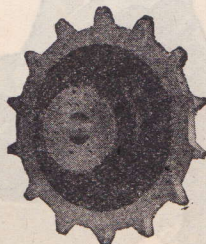
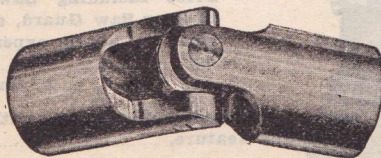
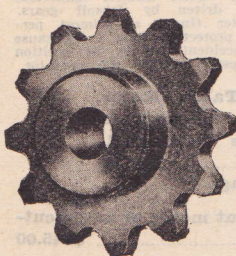
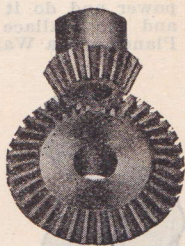
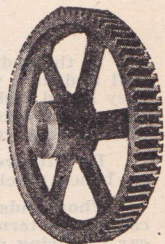
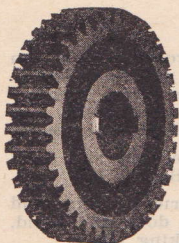
In Factory Stock

1200 Sizes

Send for our catalog containing complete specifications of all standard sizes.

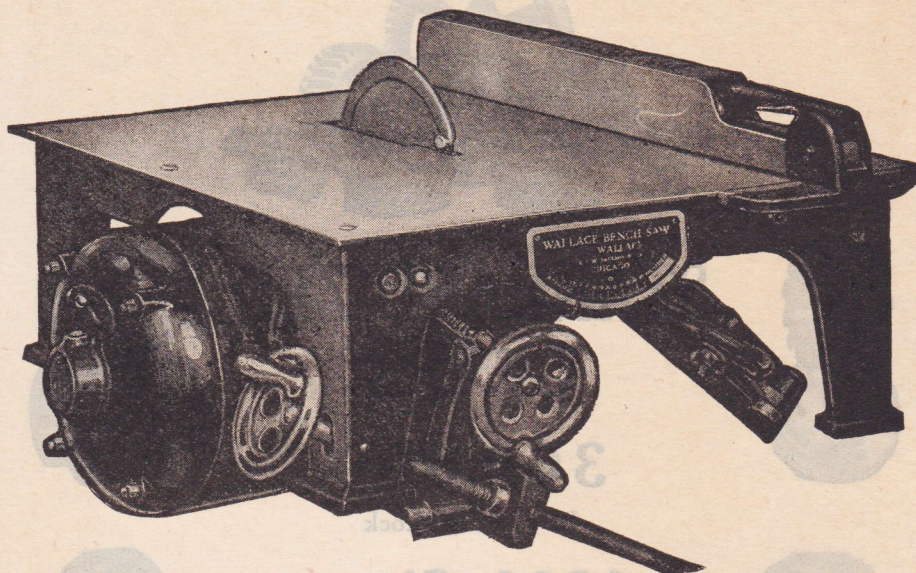
Do away with gears made to order. Use standard gears in your new machines.

Whether for first experiments or standard equipment you will find them economical, and the advantage of quick delivery from stock in case of breakdown should also interest you.





## WALLACE BENCH SAW



In the ordinary cabinet, pattern, carpenter, mill, or any woodworking shop you will find men walking around from their benches to and from big machines—often they stand and wait on another man to finish using the big machine—often they are forced to do their work by hand instead of waiting. This means a tremendous loss of time—foot work is a dead loss and hand work is too slow and tedious—too costly.

Do this work at the bench—eliminate this strolling around the shop and do it on bench machines—the Wallace Bench Planer and the Wallace Bench Saw.

Thousands of shops are already equipped—cabinet, foundries, coffin and casket, pattern (jobbing and manufacturing), mill-working, sash, door and blind, car repairing and building, auto shops and all classes of woodworking shops.

You can handle all cutting and planing to be done, after the first big cuts have been made at the bench now—do it in half the time and with one-sixth the power and do it far more accurately and quickly on the Wallace Bench Planer and the Wallace Bench Saw. Try out the plan with one set—a Wallace Bench Planer and a Wallace Bench Saw.

### SPECIFICATIONS:

Diameter of the Saw  
7 inches.  
Size of Table, 17x20  
inches.  
Size of Motor, ½ h. p.  
Weight of Saw including  
motor, 115 lbs.  
Shipping weight, 150 lbs.  
Speed of Saw, 5200 r. p.  
m.  
Height—foot to table  
top, 6½ inches.  
Height—including stand  
36 inches.

Wallace Bench Saw is a uni-  
versal saw; cuts any angle, cross  
cut or rip. Saw tilts instead of  
table making it possible to work  
faster and safer. Accurately ad-  
justed to any angle in five sec-  
onds. Saw raises and lowers for  
grooving. Fence finished on both  
sides—can be used on either  
side of saw. Cross Cut Fence  
built into machine—travels on  
rod at side and folds under  
table. Motor directly connected.  
Saw driven by fabroll gears.  
Shutter Guard an almost per-  
fect protection from every cause  
of accident—always in position  
—doesn't hamper the operator.



Price including Saw Table, Motor,  
Shutter Saw Guard, stand—complete,  
with no added expense for install-  
ing ..... \$325.00

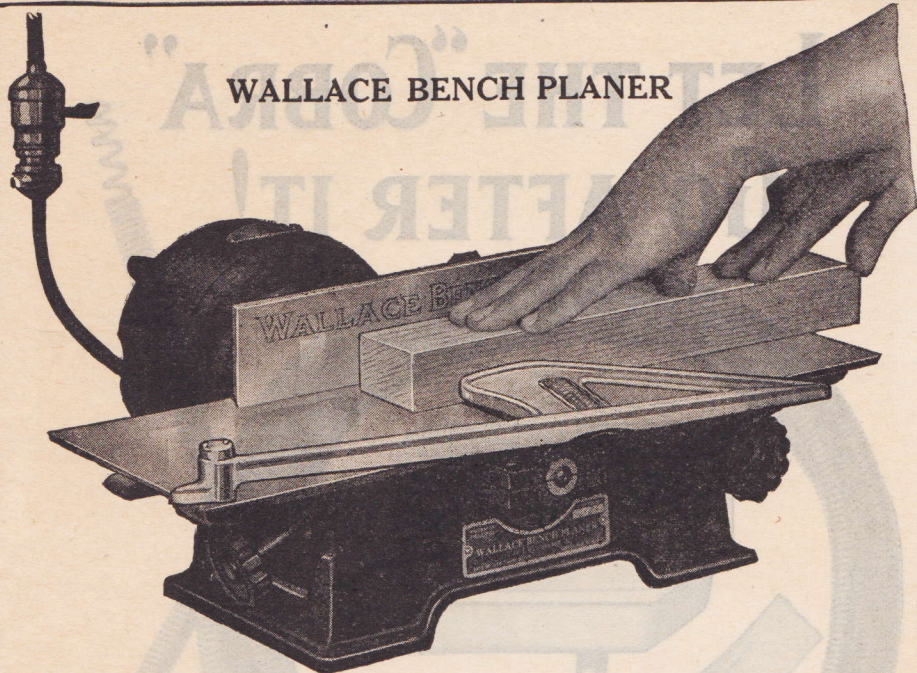
f. o. b. Chicago

Shipping Room Saw—without motor or angle cut-  
ting feature, ..... \$145.00

DISCOUNT UPON APPLICATION



## WALLACE BENCH PLANER



A powerful, fast, safe and accurate bench machine. Will handle practically all your jointing, trimming, surfacing and assembling work. Portable. Operates from its own motor on any electric light circuit.

The 4-inch planer will handle all work up to 4 ft. long by 4 inches wide and give a smooth finished surface on hard as well as soft wood. The 6-inch jointer will take any stock from the smallest piece up to large pieces 6 inches wide and 6 to 8 feet long. Longer stock can be worked by the use of roller rests.

The Wallace Idea is the essence of manufacturing economy—to eliminate waste in production.

Every superintendent or foreman is striving to eliminate waste motion, waste time, waste power, and by converting all of this into useful work, to speed production—increase output—and reduce costs.

Width of knives.....	4 in. Planer	6 in. Jointer
Length of front Table.....	4 in.	6 in.
Length of rear Table.....	10 in.	15 in.
Motor—G.E.—.....	9 in.	15 in.
Weight (with motor).....	1/4 h. p.	1/2 h. p.
	50 lbs.	75 lbs.
Table adjustable to any depth cut.		
Fence adjustable to any angle.		
Direct drive from motor. Has more power per		
inch of knife than big Jointers.		

The 6 inch Jointer is a ball bearing machine. Both safeguarded against accident by most ingenious guards. Guards always in position, yet do not hamper efficient operation of the machines.

Price with motor, 4 in. \$145.00, 6 in. \$290.00  
Price without motor, 4 in. \$82.00

Price with countershaft and pulley, 4 in.  
88.00 6 in. \$230.00.

F. O. B. Chicago, Ill.

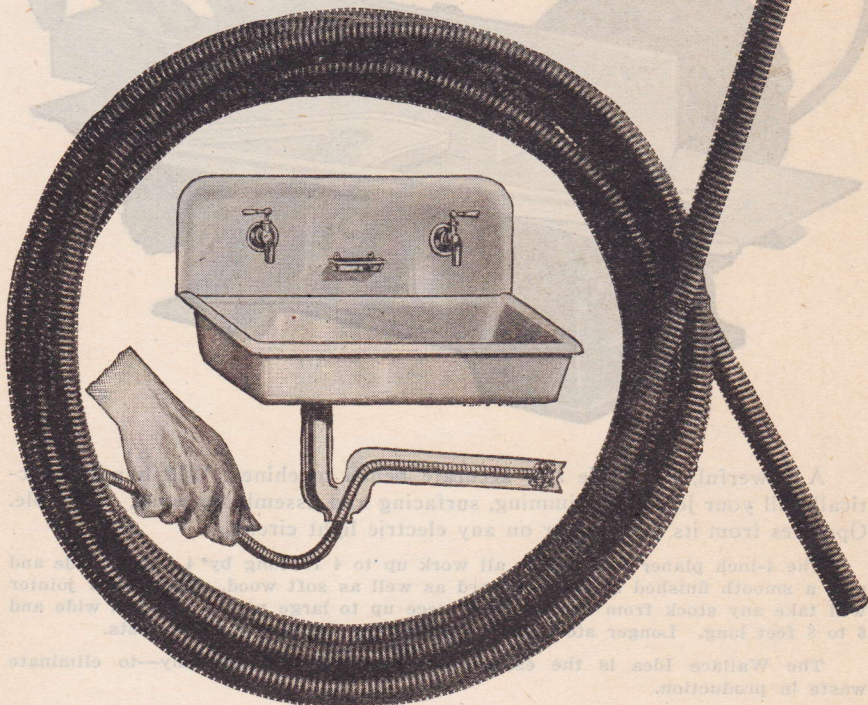
**NOTE:** When ordering these machines give both the current and voltage of your light circuit. If A. C., advise cycle.

**DISCOUNT UPON APPLICATION**





# LET THE "COBRA" GO AFTER IT!



## YOU CANNOT AFFORD TO BE WITHOUT THIS!

A tightly wound heavy steel spring, with corkscrew turn at one end, which will quickly engage and remove obstructions from sink and toilet drains and sewers. You can safeguard yourself against a lot of trouble from the clogging up of drain pipes, by having one of these devices handy.

### PRICE LIST

$\frac{3}{8}$ inch o. d. No. 14 Wire, 6 ft. long.....	\$1.00
$\frac{3}{8}$ inch o. d. No. 14 Wire, 15 ft. long .....	2.00
$\frac{3}{8}$ inch o. d. No. 14 Wire, 25 ft. long .....	3.00

All f. o. b. Chicago.

Special, extra long, to order.

Discount upon application.

### LET US QUOTE ON YOUR REQUIREMENTS

in the way of Coil Springs of STEEL, BRASS, PHOSPHOR BRONZE, ETC.; ALSO, ON FLAT SPRINGS AND WIRE SPRINGS IN UNUSUAL FORMATIONS.

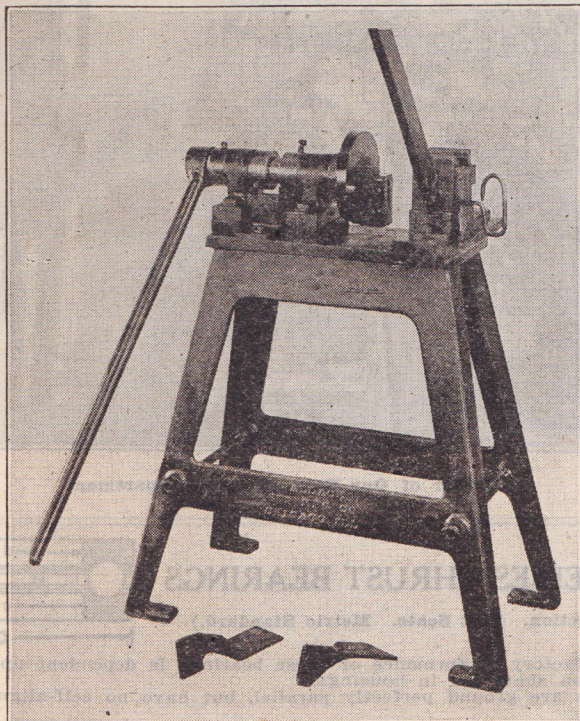
Send us sketches or samples.



*At the Wallace Plant*

## CONTRACT MACHINE WORK DEPARTMENT

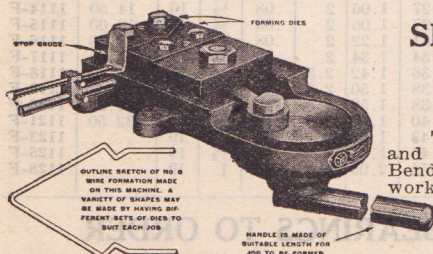
### SPECIAL MACHINES FOR SPECIAL JOBS



**BAR TWISTING MACHINE.**

The above illustration shows a special machine built for one of our customers for the twisting of flat bars. This particular machine is arranged with an auxiliary lever for offsetting the stock in such a manner as to leave the vertical edge parallel with the flat side after the twist has been made, instead of centering the twisted portion as usual. The work can be done either hot or cold, depending somewhat on the size of material to be twisted. Send us drawings or samples showing what is wanted, and on receipt of your specifications we will quote on a machine suitable for the job.

**THESE MACHINES ARE MADE TO ORDER ONLY.**



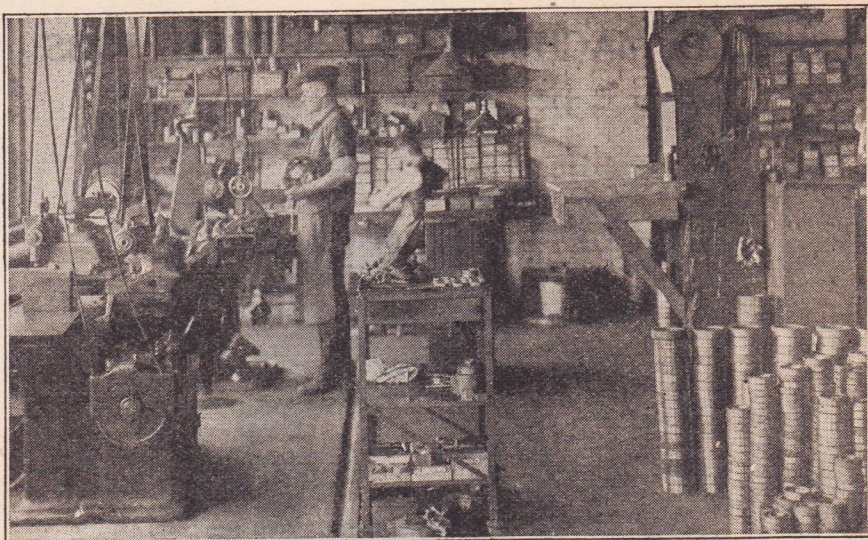
### SPECIAL BENDING TOOLS AND FORMING JIGS TO ORDER

There is no end to the variety of shapes and forms that can be bent on "Wallace" Benders. Send us a sample or sketch of the work you wish to do.



At the Wallace Plant

## BALL BEARINGS GRINDING DEPARTMENT



A Corner of Our Ball Bearings Department.

### 1100-F SERIES THRUST BEARINGS

(One Direction. Flat Seats. Metric Standard.)



The satisfactory performance of these bearings is dependent upon alignment of shoulders on shaft and in housings.

The races are ground perfectly parallel, but have no self-aligning features.

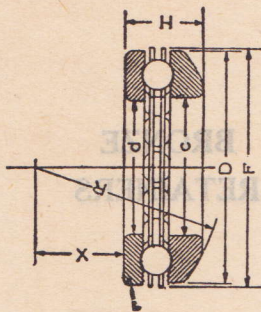
No. of Bearing	d		c		D		h		r		Balls		Price	No. of Bearing
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Dia. Ins.	No.		
1102-F	10	.3937	12	.47	30	1.18	12	.47	1	.04	1/4	7	\$ 3.30	1102-F
1103-F	15	.5906	17	.67	35	1.38	14	.55	1	.04	1/4	9	3.65	1103-F
1104-F	20	.7874	22	.87	42	1.65	14	.55	1	.04	1/4	12	4.25	1104-F
1105-F	25	.9843	27	1.06	47	1.85	14	.55	1	.04	1/4	14	4.75	1105-F
1106-F	30	1.1811	32	1.26	53	2.09	15	.59	1	.04	1/4	16	5.25	1106-F
1107-F	35	1.3780	37	1.46	62	2.44	18	.71	1.5	.06	5/16	13	6.25	1107-F
1108-F	40	1.5748	42	1.65	64	2.52	18	.71	1.5	.06	5/16	14	7.25	1108-F
1109-F	45	1.7717	47	1.85	73	2.87	20	.79	1.5	.06	3/8	15	8.50	1109-F
1110-F	50	1.9685	52	2.05	78	3.07	20	.79	1.5	.06	3/8	15	9.50	1110-F
1111-F	55	2.1654	57	2.24	88	3.46	24	.94	1.5	.06	7/16	15	11.00	1111-F
1112-F	60	2.3622	62	2.44	90	3.54	24	.94	1.5	.06	7/16	16	12.00	1112-F
1113-F	65	2.5591	67	2.64	100	3.94	27	1.06	2	.08	1/2	15	13.00	1113-F
1114-F	70	2.7559	72	2.83	103	4.06	27	1.06	2	.08	1/2	16	14.50	1114-F
1115-F	75	2.9528	77	3.03	110	4.33	27	1.06	2	.08	1/2	17	16.00	1115-F
1116-F	80	3.1496	82	3.23	115	4.53	31	1.22	2	.08	9/16	16	17.50	1116-F
1117-F	85	3.3465	88	3.46	125	4.92	34	1.34	2	.08	5/8	13	23.00	1117-F
1118-F	90	3.5433	93	3.66	135	5.31	36	1.42	2.5	.10	5/8	16	25.50	1118-F
1119-F	95	3.7402	98	3.86	140	5.51	38	1.50	2.5	.10	11/16	17	28.00	1119-F
1120-F	100	3.9370	103	4.06	150	5.91	38	1.50	2.5	.10	11/16	18	30.25	1120-F
1121-F	105	4.1339	108	4.25	155	6.10	40	1.57	2.5	.10	3/4	17	32.50	1121-F
1123-F	115	4.5276	118	4.65	165	6.50	42	1.69	3	.12	13/16	19	.....	1123-F
1125-F	125	4.9213	128	5.04	175	6.89	46	1.81	3	.12	7/8	19	.....	1125-F
1128-F	140	5.5118	143	5.63	200	7.87	52	2.05	3	.12	1	19	.....	1128-F

WE MAKE SPECIAL BEARINGS TO ORDER



# 1100 SERIES THRUST BEARINGS

(One Direction. Self aligning)  
Metric Standard



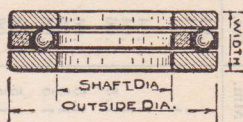
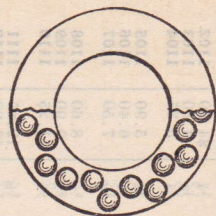
The lower washer of these bearings is ground to a spherical seat. The housing into which this washer is fitted must be machined to a corresponding radius. This spherical seat allows for automatic adjustment of misalignment.

No. of Bearing	d		c		D		H		F		X		R		r about		Balls Diam. Ins.	Price	No. of Bearing
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.			
1102	10	0.3937	12	0.47	30	1.18	14	0.55	32	1.26	10	0.39	25	0.98	1	0.04	1/4	\$4.00	1102
1103	15	0.5906	17	0.67	35	1.38	15	0.59	35	1.38	13.4	0.53	30	1.18	1	0.04	1/4	4.50	1103
1104	20	0.7874	22	0.87	42	1.65	16	0.63	42	1.65	16.6	0.65	35	1.38	1	0.04	1/4	5.35	1104
1105	25	0.9843	27	1.06	47	1.85	17	0.65	47	1.85	15	0.59	35	1.38	1	0.04	1/4	5.90	1105
1106	30	1.1811	32	1.26	53	2.09	18	0.71	55	2.17	17.8	0.70	40	1.57	1	0.04	1/4	6.40	1106
1107	35	1.3780	37	1.46	62	2.44	21	0.83	64	2.52	23.8	0.94	50	1.97	1.5	0.06	5/16	7.50	1107
1108	40	1.5748	42	1.65	64	2.52	21	0.83	66	2.60	22.4	0.88	50	1.97	1.5	0.06	5/16	8.60	1108
1109	45	1.7717	47	1.85	73	2.87	25	0.98	75	2.95	28.5	1.12	60	2.36	1.5	0.06	3/8	9.90	1109
1110	50	1.9685	52	2.05	78	3.07	28	0.98	80	3.15	32.8	1.29	65	2.56	1.5	0.06	3/8	11.25	1110
1111	55	2.1654	57	2.24	88	3.46	28	1.10	90	3.54	33.6	1.32	70	2.76	1.5	0.06	7/16	12.85	1111
1112	60	2.3622	62	2.44	90	3.64	28	1.10	92	3.62	38	1.50	75	2.95	1.5	0.06	7/16	13.90	1112
1113	65	2.5591	67	2.64	100	3.94	32	1.26	102	4.02	38.4	1.51	80	3.15	2	0.08	1/2	15.50	1113
1114	70	2.7559	72	2.83	103	4.06	32	1.26	105	4.13	42.8	1.69	85	3.35	2	0.08	1/2	17.10	1114
1115	75	2.9528	77	3.03	110	4.33	32	1.26	110	4.33	47	1.85	90	3.54	2	0.08	1/2	18.75	1115
1116	80	3.1490	82	3.23	115	4.53	35	1.38	118	4.65	48.4	1.91	95	3.74	2	0.08	9/16	20.35	1116
1117	85	3.3465	88	3.46	125	4.92	38	1.50	128	5.04	55	2.17	105	4.13	2	0.08	5/8	26.75	1117
1118	90	3.5433	93	3.65	135	5.32	38	1.50	135	5.32	59	2.32	110	4.33	2.5	0.10	5/8	30.00	1118
1119	95	3.7402	98	3.86	140	5.51	41	1.61	145	5.71	60	2.36	115	4.53	2.5	0.10	11/16	33.15	1119
1120	100	3.9370	103	4.06	150	5.91	41	1.61	150	5.91	70	2.76	125	4.92	2.5	0.10	11/16	35.50	1120
1121	105	4.1339	108	4.25	155	6.10	46	1.81	157	6.18	69.5	2.95	130	5.12	3	0.12	11/16	38.00	1121
1123	115	4.5276	118	4.65	165	6.50	49	1.93	167	6.57	75	2.95	140	5.51	3	0.12	11/16	46.00	1123
1125	125	4.9213	128	5.04	180	7.09	52	2.05	185	7.28	80.5	3.17	150	5.91	3	0.12	7/8	58.00	1125
1128	140	5.5118	143	5.63	200	7.87	58	2.28	206	8.11	93	3.66	170	6.69	3	0.12	1	75.00	1128

DISCOUNT UPON APPLICATION



# CONVERTED STEEL COLLARS



# BRONZE RETAINERS

## THRUST BALL BEARINGS

Shaft Diam.	Outside Diam.	Thickness	Ball Diam.	No. of Balls	Price
.500"	1.21875"	.5625"	3/16"	12	\$1.80
.5625"	1.21875"	.5625"	3/16"	12	1.80
.625"	1.34375"	.5625"	3/16"	13	1.80
.6875"	1.34375"	.5625"	3/16"	13	1.80
.750"	1.46875"	.5625"	3/16"	14	2.00
.8125"	1.46875"	.5625"	3/16"	14	2.00
.875"	1.84375"	.625"	1/4"	14	2.00
.9375"	1.84375"	.625"	1/4"	14	2.00
1.000"	1.96875"	.625"	1/4"	15	2.00
1.0625"	1.96875"	.625"	1/4"	15	2.00
1.125"	2.09375"	.625"	1/4"	16	2.20
1.1875"	2.09375"	.625"	1/4"	16	2.20
1.250"	2.34375"	.625"	1/4"	18	2.20
1.3125"	2.34375"	.625"	1/4"	18	2.20
1.375"	2.46875"	.625"	1/4"	20	2.90
1.4375"	2.46875"	.625"	1/4"	20	2.90
1.500"	2.59375"	.625"	1/4"	20	2.90
1.5625"	2.59375"	.625"	1/4"	20	2.90
1.625"	2.96875"	.8125"	5/16"	20	4.90
1.6875"	2.96875"	.8125"	5/16"	20	4.90
1.750"	3.09375"	.8125"	5/16"	20	4.90
1.8125"	3.09375"	.8125"	5/16"	20	4.90
1.875"	3.21875"	.8125"	5/16"	22	5.00
1.9375"	3.21875"	.8125"	5/16"	22	5.00
2.000"	3.34375"	.8125"	5/16"	23	5.00
2.0625"	3.34375"	.8125"	5/16"	23	5.00
2.125"	3.59375"	.8125"	5/16"	28	5.50
2.1875"	3.59375"	.8125"	5/16"	28	5.50
2.250"	3.71875"	.8125"	5/16"	31	5.50
2.3125"	3.71875"	.8125"	5/16"	31	5.50
2.375"	3.84375"	.8125"	5/16"	33	6.00
2.4375"	3.84375"	.8125"	5/16"	33	6.00
2.500"	3.96875"	.8125"	5/16"	34	6.00
2.750"	4.46875"	1.000"	3/8"	30	6.60
2.9375"	4.59375"	1.000"	3/8"	30	7.20
3.000"	4.71875"	1.000"	3/8"	30	8.00
3.500"	5.21875"	1.000"	3/8"	36	8.80

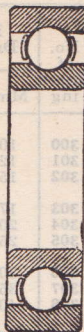
DISCOUNT UPON APPLICATION.



# **"200 SERIES" RADIAL BALL BEARINGS**

**(STANDARD LIGHT)**

No. of Bear- ing	INSIDE DIAMETER		OUTSIDE DIAMETER		WIDTH		CHAMFER		Balls Diam. Ins.	Price	No. of Bear- ing
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.			
200	10	.3937	30	1.1811	9	.3543	1	.04	$\frac{3}{16}$	\$ 4.00	200
201	12	.4724	32	1.2598	10	.3937	1	.04	$\frac{3}{16}$	4.25	201
202	15	.5906	35	1.3780	11	.4331	1	.04	$\frac{3}{16}$	4.50	202
203	17	.6693	40	1.5748	12	.4724	1	.04	$\frac{1}{4}$	5.00	203
204	20	.7874	47	1.8504	14	.5512	1	.04	$\frac{1}{4}$	5.90	204
205	25	.9843	52	2.0473	15	.5906	1	.04	$\frac{9}{32}$	7.25	205
206	30	1.1811	62	2.4410	16	.6299	1	.04	$\frac{9}{32}$	9.50	206
207	35	1.3780	72	2.8347	17	.6693	1	.04	$\frac{3}{8}$	11.00	207
208	40	1.5748	80	3.1496	18	.7087	2	.08	$\frac{13}{32}$	13.00	208
209	45	1.7717	85	3.3465	19	.7480	2	.08	$\frac{7}{16}$	14.25	209
210	50	1.9685	90	3.5433	20	.7874	2	.08	$\frac{7}{16}$	15.50	210
211	55	2.1654	100	3.9370	21	.8268	2	.08	$\frac{17}{32}$	17.50	211
212	60	2.3622	110	4.3307	22	.8661	2	.08	$\frac{9}{16}$	21.50	212
213	65	2.5591	120	4.7244	23	.9055	2	.08	$\frac{5}{8}$	27.50	213
214	70	2.7559	125	4.9213	24	.9449	2	.08	$\frac{11}{16}$	30.00	214
215	75	2.9528	130	5.1181	25	.9843	2	.08	$\frac{3}{4}$	33.00	215
216	80	3.1496	140	5.5118	26	1.0236	3	.12	$\frac{3}{4}$	37.50	216
217	85	3.3465	150	5.9055	28	1.1024	3	.12	$\frac{25}{32}$	43.00	217
218	90	3.5433	160	6.2992	30	1.1811	3	.12	$\frac{25}{32}$	52.00	218
219	95	3.7402	170	6.6929	32	1.2598	3	.12	$\frac{7}{8}$	60.00	219
220	100	3.9370	180	7.0866	34	1.3386	3	.12	$\frac{21}{32}$	78.00	220
221	105	4.1339	190	7.4804	36	1.4173	3	.12	$\frac{11}{16}$	90.00	221
222	110	4.3307	200	7.8741	38	1.4961	3	.12	1	100.00	222



**DISCOUNT UPON APPLICATION.**

## **LOAD CARRYING CAPACITY OF "200 SERIES" RADIAL BEARINGS**

No. of Bear- ing	ADMISSIBLE RADIAL LOADS IN POUNDS AT VARIOUS R.P.M.												No. of Bear- ing
	3000	2500	2000	1750	1500	1250	1000	750	500	300	200	100	
200	128	144	162	172	183	196	217	248	295	362	410	485	200
201	154	174	195	207	221	240	263	300	363	442	510	600	201
202	185	209	237	250	268	290	320	368	443	545	630	750	202
203	224	252	285	302	322	350	388	445	540	675	775	930	203
204	265	302	343	367	394	425	475	545	665	825	955	1160	204
205	319	363	414	440	475	512	570	665	865	1025	1200	1500	205
206	375	428	492	525	565	615	685	800	980	1250	1470	1880	206
207	435	503	580	625	675	740	825	960	1175	1490	1750	2225	207
208	500	580	675	730	790	865	975	1130	1400	1775	2110	2750	208
209	575	670	785	850	925	1015	1145	1325	1650	2110	2500	3300	209
210	637	750	885	960	1050	1155	1295	1530	1900	2435	2900	3850	210
211	710	835	985	1070	1175	1285	1470	1720	2150	2780	3350	4450	211
212	765	910	1080	1180	1285	1435	1620	1910	2375	3050	3700	5000	212
213	820	980	1175	1280	1425	1575	1790	2100	2620	3350	4000	5550	213
214	880	1060	1265	1400	1535	1700	1940	2275	2850	3700	4500	6100	214
215	945	1140	1385	1530	1690	1895	2150	2550	3200	4150	5010	7000	215
216	1000	1225	1510	1675	1865	2085	2380	2850	3580	4625	5600	7750	216
217	1065	1310	1635	1825	2030	2280	2640	3130	3950	5200	6300	8600	217
218	1130	1385	1750	1960	2200	2480	2870	3400	4300	5700	6900	9300	218
219	1195	1465	1860	2080	2340	2650	3060	3680	4650	6150	7500	10200	219
220	1260	1540	1940	2170	2450	2780	3200	3930	5000	6600	8010	11000	220
221	1325	1625	2040	2280	2570	2920	3350	4200	5350	7050	8650	11800	221
222	1390	1700	2130	2380	2680	3050	3500	4650	5950	7750	9500	13000	222

The thrust capacity of these bearings is 50 per cent of their radial capacity, in either direction.



# **"300 SERIES" RADIAL BALL BEARINGS** (STANDARD MEDIUM)

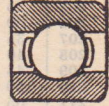
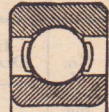
No. of Bear- ing	INSIDE DIAMETER		OUTSIDE DIAMETER		WIDTH		CHAMFER		Balls Diam. Ins.	Price	No. of Bear- ing
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.			
300	10	.3937	35	1.3780	11	.4331	1	.04	$\frac{1}{4}$	\$ 5.00	300
301	12	.4724	37	1.4567	12	.4724	1	.04	$\frac{1}{32}$	5.25	301
302	15	.5906	42	1.6536	13	.5118	1	.04	$\frac{1}{4}$	5.75	302
303	17	.663	47	1.8504	14	.5512	1	.04	$\frac{5}{16}$	6.75	303
304	20	.784	52	2.0473	15	.5906	1	.04	$\frac{5}{16}$	8.50	304
305	25	.9843	62	2.4410	17	.6693	1	.04	$\frac{3}{8}$	10.00	305
306	30	1.1811	72	2.8347	19	.7480	2	.08	$\frac{7}{16}$	12.50	306
307	35	1.3780	80	3.1496	21	.8268	2	.08	$\frac{1}{2}$	14.50	307
308	40	1.5748	90	3.5433	23	.9055	2	.08	$\frac{5}{16}$	16.50	308
309	45	1.7717	100	3.9370	25	.9843	2	.08	$\frac{5}{8}$	20.00	309
310	50	1.9685	110	4.3307	27	1.0630	2	.08	$\frac{11}{16}$	23.50	310
311	55	2.1654	120	4.7244	29	1.1417	2	.08	$\frac{3}{4}$	28.50	311
312	60	2.3622	130	5.1181	31	1.2205	2	.08	$\frac{13}{16}$	35.00	312
313	65	2.5591	140	5.5118	33	1.2992	3	.12	$\frac{7}{8}$	42.50	313
314	70	2.7559	150	5.9055	35	1.3780	3	.12	$\frac{15}{16}$	50.00	314
315	75	2.9528	160	6.2992	37	1.4567	3	.12	1	62.50	315
316	80	3.1496	170	6.6929	39	1.5354	3	.12	$\frac{11}{16}$	72.00	316
317	85	3.3465	180	7.0866	41	1.6142	3	.12	$\frac{13}{8}$	86.50	317
318	90	3.5433	190	7.4804	43	1.6929	3	.12	$\frac{15}{16}$	105.00	318
319	95	3.7402	200	7.8741	45	1.7717	3	.12	$\frac{13}{4}$	120.00	319
320	100	3.9370	215	8.4646	47	1.8504	3	.12	$\frac{15}{16}$	135.00	320
321	105	4.1339	225	8.8583	49	1.9291	3	.12	$\frac{13}{8}$	150.00	321
322	110	4.3307	240	9.4489	50	1.9685	3	.12	$\frac{15}{16}$	180.00	322

**DISCOUNT UPON APPLICATION**

## **LOAD CARRYING CAPACITY OF "300 SERIES" RADIAL BEARINGS**

No. of Bear- ing	ADMISSIBLE RADIAL LOADS IN POUNDS AT VARIOUS R.P.M.												No. of Bear- ing
	3000	2500	2000	1750	1500	1250	1000	750	500	300	200	100	
300	177	199	225	240	253	272	300	343	410	500	575	675	300
301	210	237	265	280	298	322	355	408	492	605	695	825	301
302	246	277	310	328	349	379	420	480	580	720	830	1000	302
303	290	327	369	390	415	450	500	575	700	875	1020	1230	303
304	340	385	433	460	490	532	590	685	835	1050	1230	1500	304
305	395	448	510	540	580	632	710	820	1000	1265	1500	1850	305
306	455	525	603	645	700	760	850	990	1220	1535	1810	2225	306
307	525	610	710	760	825	910	1020	1185	1470	1875	2200	2709	307
308	610	715	835	910	985	1075	1220	1415	1755	2250	2680	3400	308
309	700	825	975	1055	1150	1265	1435	1680	2100	2700	3230	4150	309
310	805	960	1140	1250	1365	1510	1710	2025	2440	3280	3930	5050	310
311	920	1100	1325	1475	1610	1800	2050	2420	3050	3950	4750	6150	311
312	1045	1270	1555	1725	1900	2125	2425	2880	3650	4750	5750	7450	312
313	1180	1450	1785	1975	2200	2450	2800	3350	4220	5550	6700	8800	313
314	1290	1600	2005	2235	2485	2800	3200	3800	4820	6320	7700	10200	314
315	1425	1775	2205	2460	2750	3100	3580	4260	5450	7150	8700	11600	315
316	1611	1993	2420	2730	3050	3450	3950	4750	6050	7900	9700	12900	316
317	1808	2202	2620	2940	3300	3740	4300	5150	6550	8650	10600	14000	317
318	2009	2409	2872	3140	3550	4000	4650	5600	7010	9350	11500	15300	318
319	2220	2687	3188	3350	3800	4300	5000	6050	7700	10050	12400	16600	319
320	2431	2918	3468	3640	4050	4650	5400	6450	8000	10800	13400	18100	320
321	2641	3192	3797	4025	4550	5200	5900	6900	8800	11600	14200	19300	321
322	2851	3452	4117	4360	4900	5550	6350	7400	9400	12400	15300	20900	322

The thrust capacity of these bearings is 50 per cent of their radial capacity, in either direction.





# "400 SERIES" RADIAL BALL BEARINGS

(STANDARD HEAVY)

No. of Bearing	INSIDE DIAMETER		OUTSIDE DIAMETER		WIDTH		CHAMFER		Balls Diam. Ins.	Price	No. of Bearing
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.			
403	17	.6693	62	2.4410	17	.6693	1	.04	$\frac{1}{2}$	\$11.00	403
404	20	.7874	72	2.8347	19	.7480	2	.08	$\frac{9}{16}$	12.50	404
405	25	.9843	80	3.1496	21	.8268	2	.08	$\frac{5}{8}$	14.50	405
406	30	1.1811	90	3.5433	23	.9055	2	.08	$1\frac{1}{16}$	17.50	406
407	35	1.3780	100	3.9370	25	.9843	2	.08	$\frac{3}{4}$	21.00	407
408	40	1.5748	110	4.3307	27	1.0630	2	.08	$1\frac{1}{8}$	24.00	408
409	45	1.7717	120	4.7244	29	1.1417	2	.08	$\frac{7}{8}$	29.50	409
410	50	1.9685	130	5.1181	31	1.2205	2	.08	$1\frac{1}{8}$	36.00	410
411	55	2.1654	140	5.5118	33	1.2992	3	.12	1	43.00	411
412	60	2.3622	150	5.9055	35	1.3780	3	.12	$1\frac{1}{8}$	51.00	412
413	65	2.5591	160	6.2992	37	1.4567	3	.12	$1\frac{3}{8}$	66.00	413
414	70	2.7559	180	7.0866	42	1.6536	3	.12	$1\frac{3}{4}$	88.00	414
415	75	2.9528	190	7.4804	45	1.7717	3	.12	$1\frac{5}{8}$	105.00	415
416	80	3.1496	200	7.8741	48	1.8898	3	.12	$1\frac{5}{8}$	120.00	416
417	85	3.3465	210	8.2678	52	2.0473	3	.12	$1\frac{7}{8}$	140.00	417
418	90	3.5433	225	8.8583	54	2.1260	3	.12	$1\frac{5}{8}$	165.00	418
419	95	3.7402	250	9.8426	55	2.1654	3	.12	$1\frac{3}{4}$	215.00	419
420	100	3.9370	265	10.4331	60	2.3622	3	.12	$1\frac{7}{8}$	275.00	420
421	105	4.1339	290	11.4174	65	2.5591	3	.12	2	300.00	421
422	110	4.3307	320	12.5985	70	2.7559	3	.12	$2\frac{1}{8}$	380.00	422

DISCOUNT UPON APPLICATION

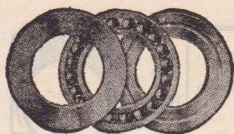
## LOAD CARRYING CAPACITY OF "400 SERIES" RADIAL BEARINGS

No. of Bear- ing	ADMISSIBLE RADIAL LOADS IN POUNDS AT VARIOUS R.P.M.												No. of Bear- ing
	3000	2500	2000	1750	1500	1250	1000	750	500	300	200	100	
403	665	755	855	915	980	1065	1185	1355	1655	2080	2400	2850	403
404	750	855	975	1040	1115	1220	1365	1575	1935	2430	2850	3400	404
405	840	965	1095	1180	1270	1400	1570	1825	2240	2850	3350	4000	405
406	945	1080	1255	1350	1465	1605	1820	2115	2600	3320	3900	4750	406
407	1055	1225	1425	1535	1665	1845	2080	2425	3030	3850	4600	5600	407
408	1170	1375	1605	1750	1910	2120	2400	2820	3500	4500	5350	6650	408
409	1285	1530	1820	1975	2155	2390	2730	3200	4000	5250	6350	8150	409
410	1445	1720	2035	2215	2430	2730	3120	3700	4650	6050	7250	9200	410
411		1920	2285	2500	2750	3080	3550	4220	5350	7000	8400	10800	411
412		2110	2520	2760	3050	3400	3950	4700	6000	7850	9500	12400	412
413			2750	3030	3350	3750	4350	5200	6650	8750	10600	13900	413
414			2990	3300	3650	4100	4750	5720	7250	9500	11600	15400	414
415			3250	3600	4000	4550	5300	6350	8100	10700	13100	17300	415
416				3950	4450	5060	5950	7150	9150	12100	14800	19600	416
417				4260	4850	5550	6500	7850	10000	13400	16400	21700	417
418				4600	5250	6100	7200	8750	11200	14900	18300	24300	418
419					5850	6750	7950	9600	12400	16400	20000	27000	419
420					6350	7400	8750	10600	13500	17800	21800	29000	420
421							9600	11700	15000	19900	24400	33000	421
422							10400	12700	16300	21600	26500	36500	422

The thrust capacity of these bearings is 50 per cent of their radial capacity, in either direction.



# SPECIAL AND STANDARD BALL BEARINGS

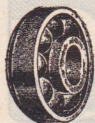


**THRUST  
BEARING  
IMPROVED  
RETAINER**

**No. 1600 Series**

No.	Bore	Out Diam.	Thick	Size Balls	Price
1604	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{16}$	$\frac{1}{4}$	<b>\$1.25</b>
1606	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{1}{8}$	$\frac{1}{4}$	<b>1.75</b>
1606A	$\frac{3}{4}$	$1\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	<b>2.00</b>
1608A	$\frac{7}{8}$	$1\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	<b>2.00</b>
1617	$1\frac{1}{16}$	$2\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{16}$	<b>5.00</b>
1618	$1\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{16}$	<b>5.00</b>
1602	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	<b>1.25</b>
1603	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	<b>1.25</b>

Other sizes in preparation.



**REED TYPE**

Patented Dec. 2, 1913

**No. 400 Series**

No.	Bore	Out Diam.	Thick	No. Balls	Size Balls	Price
403	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	10	$\frac{5}{32}$	<b>\$1.00</b>
404	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{1}{4}$	11	$\frac{5}{32}$	<b>1.25</b>
405	$\frac{1}{4}$	$2\frac{1}{32}$	$\frac{1}{4}$	9	$\frac{5}{16}$	<b>1.35</b>
407	$\frac{5}{16}$	1	$\frac{3}{16}$	11	$\frac{5}{16}$	<b>1.50</b>
409	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	9	$\frac{1}{4}$	<b>1.75</b>
411	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	11	$\frac{1}{4}$	<b>2.00</b>
416	$1\frac{1}{16}$	$1\frac{11}{16}$	$\frac{3}{16}$	12	$\frac{5}{16}$	<b>3.00</b>
420	$1\frac{5}{16}$	2	$\frac{3}{16}$	15	$\frac{5}{16}$	<b>5.00</b>
420A	1	2	$\frac{3}{16}$	15	$\frac{5}{16}$	<b>5.40</b>

Other sizes in preparation.

Note.—Bore can be varied within certain limits.

## 2-RO BALL BEARINGS

No.	Bore	Out Diam.	Width	Price
2105	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	<b>\$2.50</b>
2107	$\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{4}$ or $1\frac{1}{8}$	<b>3.00</b>

## MAGNETO (Cup & Cone) TYPE

No.	Bore	Out Diam.	Width	Price
810	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{9}{16}$ or $\frac{1}{2}$	<b>\$2.50</b>
811	$1\frac{1}{16}$	$1\frac{3}{4}$	$\frac{9}{16}$ or $\frac{1}{2}$	<b>2.50</b>
812	$\frac{3}{4}$	$1\frac{3}{4}$	$\frac{9}{16}$ or $\frac{1}{2}$	<b>2.50</b>



**No. 500 Series**

No.	Bore	Diam.	Thick	Balls	Price
502	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{1}{4}$	$\frac{1}{8}$	<b>\$0.25</b>
506	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{5}{16}$	$\frac{3}{16}$	<b>.40</b>
507	$\frac{5}{16}$	1	$\frac{5}{16}$	$\frac{3}{16}$	<b>.45</b>
509	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{1}{4}$	<b>.60</b>
511	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{1}{4}$	<b>.70</b>
512	$\frac{5}{8}$	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{1}{4}$	<b>.80</b>
515	$\frac{3}{4}$	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{1}{4}$	<b>.90</b>
516	$1\frac{1}{16}$	$1\frac{11}{16}$	$\frac{9}{16}$	$\frac{5}{16}$	<b>1.20</b>
518	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	<b>1.50</b>



**REED TYPE**

Patented Dec. 2, 1913

**No. 450 Series**

**Combination Radial  
End Thrust**

No.	Bore	Out Diam.	Thick	No. Balls	Size Balls	Price
454	$\frac{5}{16}$	$1\frac{3}{16}$	$\frac{1}{4}$	11	$\frac{5}{32}$	<b>\$1.60</b>
455	$\frac{1}{4}$	$2\frac{1}{32}$	$\frac{1}{4}$	9	$\frac{5}{16}$	<b>1.75</b>
457	$\frac{5}{16}$	1	$\frac{1}{4}$	11	$\frac{5}{16}$	<b>1.90</b>
459	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	9	$\frac{1}{4}$	<b>2.20</b>
461	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	11	$\frac{1}{4}$	<b>2.50</b>
470	$1\frac{1}{16}$	2	$\frac{3}{16}$	15	$\frac{5}{16}$	<b>6.50</b>
470A	1	2	$\frac{3}{16}$	15	$\frac{5}{16}$	<b>7.00</b>
472	$1\frac{1}{8}$	$2\frac{5}{16}$	$\frac{3}{8}$	14	$\frac{3}{8}$	<b>7.80</b>

Most of these sizes ready for prompt shipment.



**SELF  
CONTAINED  
THRUST  
BEARINGS**

**Reed Pat. Imp'vd  
No. 700 Series**

No.	Bore	Out Diam.	Thick	Size Balls	Price
703	$\frac{1}{2}$	$1\frac{1}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	<b>\$4.00</b>
708	$\frac{7}{8}$	$1\frac{11}{16}$	.....	.....	<b>6.00</b>
708A	$\frac{3}{4}$	$1\frac{11}{16}$	$\frac{1}{2}$	.....	<b>6.00</b>
712	$1\frac{1}{8}$	$2\frac{1}{16}$	$\frac{9}{16}$	$\frac{1}{4}$	<b>8.00</b>
713	$1\frac{1}{8}$	$2\frac{1}{16}$	$\frac{9}{16}$	.....	<b>8.00</b>
714	$1\frac{1}{4}$	$2\frac{1}{4}$	$\frac{9}{16}$	.....	<b>9.00</b>
715	$1\frac{5}{8}$	$2\frac{1}{4}$	$\frac{9}{16}$	.....	<b>9.50</b>
721	$1\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	<b>26.00</b>

Tools are being made for intermediate and larger sizes.



Combination Radial and Thrust. Inexpensive bearings, adapted to the needs of many manufacturers.

**No. 300 Series.**

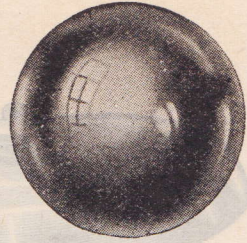
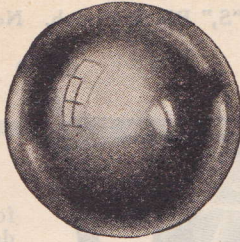
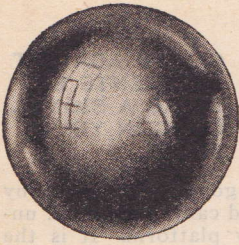
No.	Bore	Thick	O. D.	Balls	Price
306	$\frac{5}{16}$	$\frac{5}{16}$	$1\frac{15}{16}$	$\frac{3}{16}$	<b>\$0.40</b>
307	$\frac{3}{8}$	$\frac{3}{8}$	1	$\frac{3}{16}$	<b>.50</b>
308	$\frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{3}{16}$	<b>.55</b>
309	$\frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{16}$	<b>.60</b>
311A	$\frac{5}{8}$	$\frac{7}{16}$	$1\frac{1}{4}$	$\frac{3}{16}$	<b>.65</b>
312	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{2}$	<b>.70</b>
315	$\frac{3}{4}$	$\frac{9}{16}$	$1\frac{1}{8}$	$\frac{1}{2}$	<b>.75</b>
318	$\frac{7}{8}$	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	<b>1.00</b>
320	1	$\frac{5}{8}$	2	$\frac{5}{16}$	<b>1.10</b>
320A	1	$\frac{5}{8}$	$2\frac{1}{4}$	$\frac{5}{16}$	<b>1.30</b>
320B	1	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{5}{16}$	<b>1.30</b>
321	$1\frac{1}{8}$	$\frac{5}{8}$	$2\frac{1}{4}$	$\frac{5}{16}$	<b>1.60</b>
322	$1\frac{1}{8}$	.....	$2\frac{3}{4}$	$\frac{5}{16}$	<b>2.00</b>
322A	$1\frac{3}{8}$	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{1}{4}$	<b>2.20</b>
322B	$1\frac{5}{8}$	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{1}{4}$	<b>2.20</b>

Special sizes of any type can be made if quantity warrants making of special tools.

**DISCOUNT UPON APPLICATION**



## STEEL BALLS

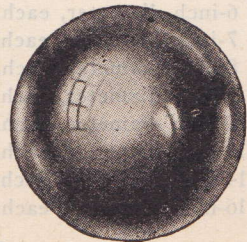
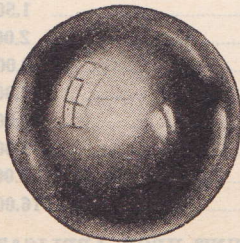
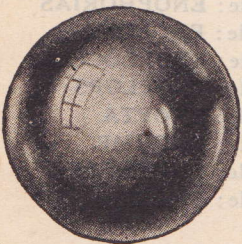


### GENERAL PRICE LIST

PRICES PER 1000 BALLS

Size Ins.	List	Size Ins.	List	Size Ins.	List
$1\frac{1}{16}$	\$4.00	$13\frac{1}{16}$	\$ 110.00	$1\frac{13}{16}$	\$ 1,000
$3\frac{3}{32}$	3.00	$7\frac{7}{8}$	130.00	$17\frac{7}{8}$	1,100
$1\frac{1}{8}$	3.00	$15\frac{1}{16}$	160.00	$1\frac{15}{16}$	1,200
$5\frac{3}{32}$	3.60	1	190.00	2	1,400
$3\frac{1}{16}$	4.00	$11\frac{1}{16}$	210.00	$21\frac{1}{8}$	1,700
$7\frac{3}{32}$	4.80	$11\frac{1}{8}$	240.00	$21\frac{1}{4}$	2,000
$1\frac{1}{4}$	6.00	$13\frac{1}{16}$	270.00	$23\frac{3}{8}$	2,400
$9\frac{3}{32}$	9.00	$11\frac{1}{4}$	310.00	$21\frac{1}{2}$	2,800
$5\frac{1}{16}$	12.00	$15\frac{1}{16}$	350.00	$25\frac{5}{8}$	3,400
$11\frac{3}{32}$	16.00	$13\frac{3}{8}$	420.00	$23\frac{3}{4}$	4,000
$3\frac{3}{8}$	20.00	$17\frac{1}{16}$	500.00	$27\frac{7}{8}$	4,800
$7\frac{1}{16}$	28.00	$11\frac{1}{2}$	580.00	3	5,600
$1\frac{1}{2}$	40.00	$19\frac{1}{16}$	660.00	$31\frac{1}{4}$	6,500
$9\frac{1}{16}$	56.00	$15\frac{5}{8}$	740.00	$31\frac{1}{2}$	7,500
$5\frac{5}{8}$	68.00	$1\frac{11}{16}$	820.00	$33\frac{3}{4}$	8,500
$11\frac{1}{16}$	80.00	$13\frac{3}{4}$	900.00	4	10,000
$3\frac{3}{4}$	96.00				

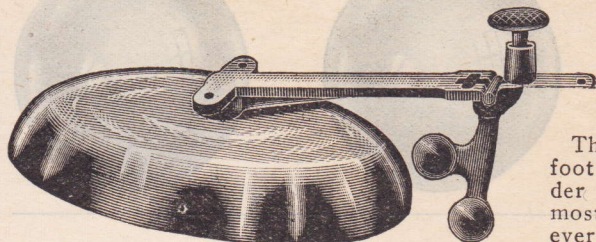
Discounts consistent with the quantity will be quoted upon application.





## CRANE GONG

Type "S," Black Finish. No. 25



**GUARD AGAINST  
ACCIDENTS BY  
USING A SIGNAL  
GONG IN YOUR  
SHOP.**

This gong is operated by foot and can be mounted under any platform. It is the most effective alarm bell ever produced.

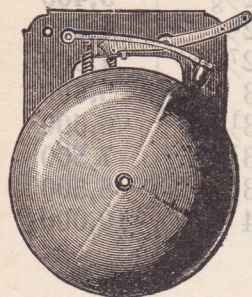
Especially useful on all cranes and construction work. It is made of pressed steel—not cast. Crane operator can indicate whether he intends to stop, go forward or backward—one ring for each pressure of foot on push pin. Saves many stops and starts and leaves operator with both hands free to run crane.

### Price List

8-in. diam. Gong comp. with attach., each	\$3.80	Code: ENODATORIS
10-in. diam. Gong comp. with attach., each	4.50	Code: ENODATORUM
12-in. diam. Gong comp. with attach., each	5.50	Code: ENOMOTAR
14-in. diam. Gong comp. with attach., each	6.50	Code: ENONCIEZ

## TRIP GONGS

No. 24



These gongs are attractive in appearance, being highly polished and nickel plated. The shells are made of steel, uniform in size and quality. The frames are made of iron and are therefore practically indestructible. Cheaper than brass or composition gongs and not affected by the weather. Suitable for anything or any place for which a signal gong is needed.

### Price List

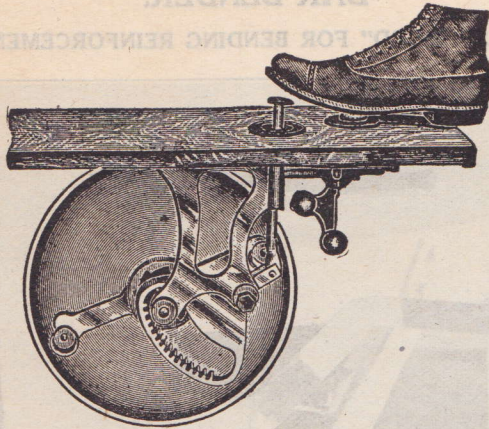
Complete as shown above.

4-inch diameter, each.....	\$ 0.90	Code: ENOPHILO
5-inch diameter, each.....	1.00	Code: ENOPHOBIA
6-inch diameter, each.....	1.50	Code: ENOPHORIAS
7-inch diameter, each.....	2.00	Code: ENOPLIENS
8-inch diameter, each.....	3.00	Code: ENOPLOCERE
9-inch diameter, each.....	4.00	Code: ENOPLOPS
10-inch diameter, each.....	5.00	Code: ENOPTA
12-inch diameter, each.....	8.00	Code: ENORME
14-inch diameter, each.....	12.00	Code: ENOTATAS
16-inch diameter, each.....	16.00	Code: ENOTRIA

**DISCOUNT UPON APPLICATION**



## ROTARY CRANE GONG



### TYPE "R," BLACK FINISH

Guard against accidents by using a signal gong in your shop.

Especially useful on all cranes and construction work. It is made of pressed steel—not cast. Contains only five parts, all of which work in perfect unison with an action as smooth as oil. Crane operator can indicate whether he intends to stop, go forward or backward—one ring for each pressure of foot on front push pin. In addition, another pin is provided which is responded to by thirty or forty loud clear rings. Saves many steps and starts and leaves operator with both hands free to run crane.

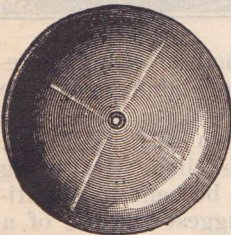
#### PRICE LIST

Type "R"—10-inch size, each, as shown	\$12.50
Type "D"—10 " " " without 2-ball single tapping attachment	10.00
Type "R"—12 " " " as shown	15.00
Type "D"—12 " " " without 2-ball single tapping attachment	12.00
Type "R"—14 " " " as shown	17.50
Type "D"—14 " " " without 2-ball single tapping attachment	14.00

## GONG SHELLS

### A-1 NICKEL FINISH

Made of pressed steel. Uniform in size. Guaranteed not to crack. Highly polished and nickel plated.



#### PRICE LIST

#### GONG SHELLS\*ONLY

1 1/8 inch A-1 Nickel finish, each	\$ 0.11
1 1/2 " " " " " "	.12
1 3/4 " " " " " "	.14
2 " " " " " "	.16
2 1/4 " " " " " "	.18
2 1/2 " " " " " "	.20
3 " " " " " "	.25
3 1/2 " " " " " "	.40
4 " " " " " "	.50
5 " " " " " "	.60
6 " " " " " "	.75
7 " " " " " "	.90
8 " " " " " "	1.50
9 " " " " " "	2.50
10 " " " " " "	3.00
12 " " " " " "	4.00
14 " " " " " "	6.00
16 " " " " " "	14.00
18 " " " " " "	20.00

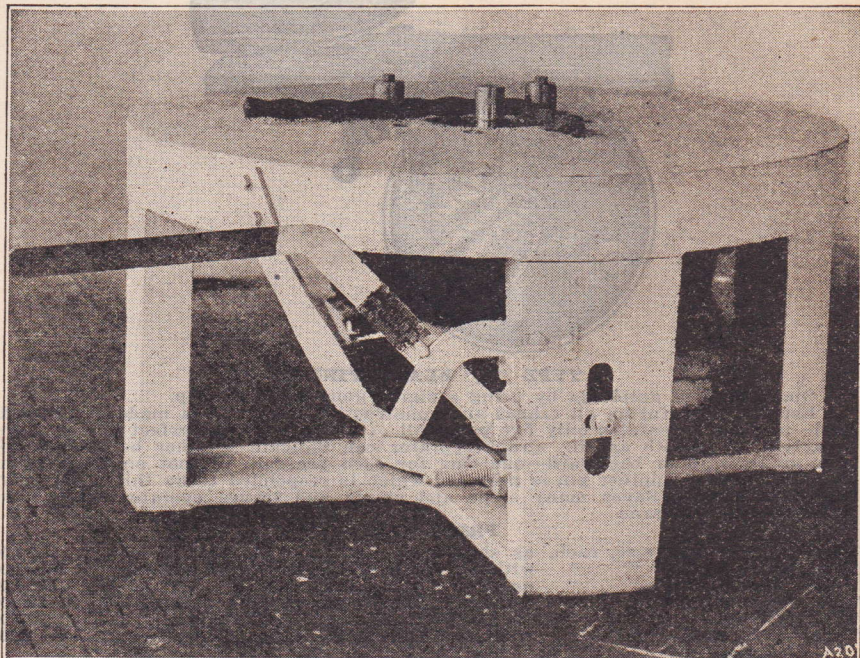
All prices are subject to change without notice.

Discount consistent with the quantity will be quoted upon application.



## WALLACE No. 8 SPECIAL POWER DRIVEN BAR BENDER.

THE "LAST WORD" FOR BENDING REINFORCEMENT BARS.



To meet the demand for an economical method of bending reinforcement bars, on account of the high cost of labor, we have designed this power driven machine.

This machine has a capacity for bending two (2)  $1\frac{1}{4}$ " dia. square-twisted or any other kind of bars at one time. By using extra high forming pins and rollers small bars can be bent in quantities of from eight to ten bars at one time. We suggest the use of a "U" shaped clip over the bars for convenience in handling while bending.

Bars may be bent either to the RIGHT or LEFT hand, avoiding the necessity of reversing bars in order to make all bends. This effects a considerable saving in time and labor of handling material.

Machine may be operated either by motor or belt drive. Please be sure to specify whether machine is to be motor or belt driven, so that we can furnish necessary base for the motor or pulleys for belt drive.

We can also build special equipment to order for this machine, for bending special shapes, angles, tees, tubes, pipe, flat bars (either to be bent on edge or flatwise).

Send us full specifications of what you want and we will quote on equipment to take care of your work.

A motor of  $7\frac{1}{2}$  h. p. capacity will operate the machine. We do not furnish the motor.

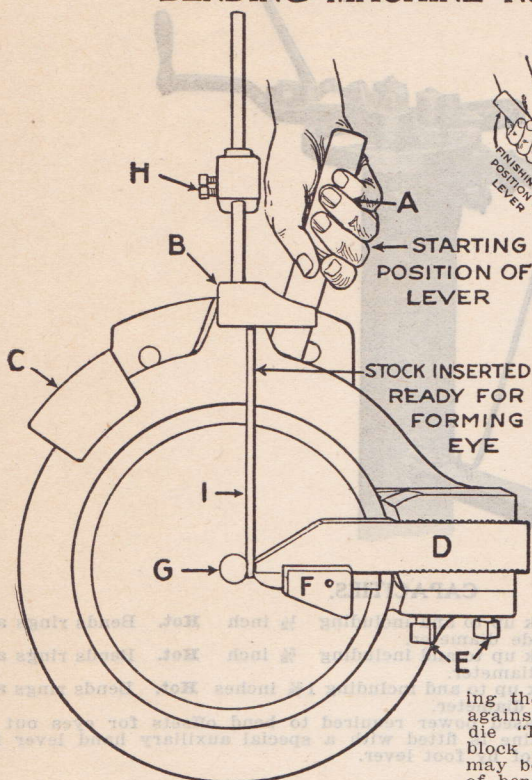
Approximate weight .....	3200 lbs.
PRICE, with regular equipment only, as shown in illustration, and	
without motor .....	\$1200.00

Code: ENREVESADO

**DISCOUNT UPON APPLICATION.**



# WALLACE COMBINATION ANGLE AND EYE BENDING MACHINE No. 10



**FIG. 29**

dies substituted the general arrangement of machine is as shown in Figures 29 and 30.

Figure 29 is a top view of machine in position ready for starting operation. Letter "I" represents a small wire placed between the forming pin "G," the gripping dog "F" and the guiding die "D." The gripping dog "F," as well as entire center portion of the machine shown within the inner circle on diagram, rotates with the handle. The gripping dog "F" may be adjusted to suit any thickness of stock by loosening a nut on the under side of the clamp that holds the same. Stationary die "D" may be adjusted by loosening the set screws, "E." Stop Block "C" can be set at any point on the circular edge of the machine, according to the degree of bend that is desired. "B" is a stop gauge for the stock while "H" is a holder for the stop gauge.

Figure 30 shows position of handle when the bend has been completed and also the finished eye on the end of the wire.

For angle-bending, the general arrangement of dies is the same. The angle-bending dies are included in the cost of this machine.

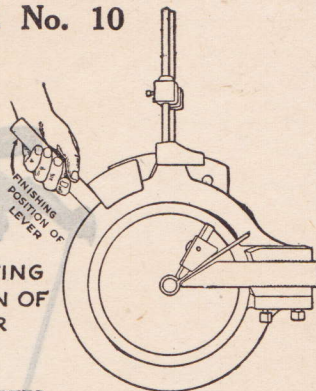
## CAPACITY

- $\frac{1}{8}$  inch diameter Round Rod or Wire, without heating.
- $\frac{1}{8}$  inch diameter or under Square Rod, without heating.
- $\frac{1}{8}$  inch x 1 inch Flat Stock, or equivalent, without heating.

Gross weight, 80 lbs.; net weight, 60 lbs.

Price complete with stand.....\$75.00 Code: ENNODIUS.  
If stand is not desired, deduct \$15.00 from list price.

Discount upon Application.



**FIG. 30**

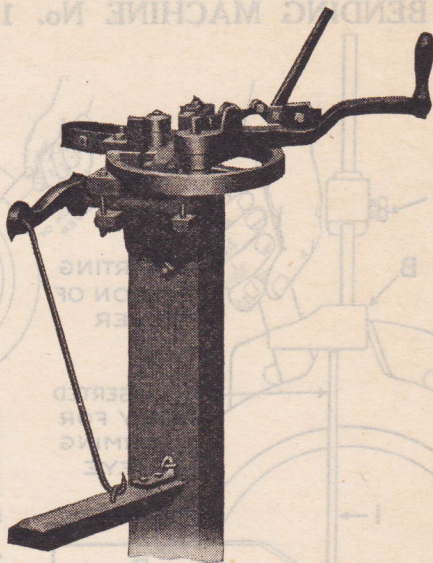
**For Bending Light Stock to Various Angles, Forming Hooks, "S," "U" Shapes, Eyes, Etc. Without First Heating the Material.**

Can be mounted on an ordinary work bench. The operating lever (of which a broken view is shown) is about 18 inches long and by pulling this around it rotates the dies between which the stock is held, forcing the extended end of stock against the adjustable back die "D." There is a stop block on the machine which may be set to suit the degree of bend which is to be made.

When angle-bending dies are removed and eye-bending



# WALLACE EYE BENDING MACHINES Nos. 1, 2, and 3



## CAPACITIES.

Size No. 1. Takes stock up to and including  $\frac{1}{2}$  inch **Hot.** Bends rings and eyes up to  $2\frac{3}{4}$  inches, outside diameter.

Size No. 2. Takes stock up to and including  $\frac{5}{8}$  inch **Hot.** Bends rings and eyes up to 3 inches, outside diameter.

Size No. 3. Takes stock up to and including  $1\frac{1}{2}$  inches **Hot.** Bends rings and eyes up to 7 inches, outside diameter.

On account of the increased power required to bend offsets for eyes out of heavy stock the No. 3 machine is fitted with a special auxiliary hand lever for operating offset dog instead of by foot lever.

## APPROXIMATE WEIGHTS AND MEASUREMENTS.

	No. 1	No. 2	No. 3
Gross weight, crated for domestic shipment .....	60 lbs.	100 lbs.	195 lbs.
Gross weight, boxed for export shipment .....	60 lbs.	100 lbs.	195 lbs.
Net weight .....	50 lbs.	75 lbs.	155 lbs.

Measurements, boxed:

No. 1,  $9\frac{1}{2} \times 13\frac{1}{2} \times 24$ " = 2 cubic feet.  
 No. 2,  $14 \times 17 \times 25$ " = 3.44 cubic feet.  
 No. 3,  $18 \times 20 \times 47$ " = 9.79 cubic feet.

## PRICE LIST.

DESCRIPTION	Price	Code
No. 1 Eye Bender, complete with stand and one size of forming pin .....	\$ 65.00	ENROSCASES
No. 2 Eye Bender, complete with stand and one size of forming pin .....	75.00	ENROSCARON
No. 3 Eye Bender, complete with stand and one size of forming pin .....	105.00	ENROSCAEE

If stand is not desired deduct \$15.00 from list prices.

## EXTRA FORMING PINS.

Any size, any machine, up to 1 inch .....	Each, \$2.50
Any size, any machine, over 1 inch up to 3 inches .....	Each, 3.50
Any size, any machine, over 3 inches up to 5 inches .....	Each, 4.50
Any size, any machine, over 5 inches up to $6\frac{1}{2}$ inches .....	Each, 5.50

## DISCOUNT UPON APPLICATION



THE BIGGEST PRODUCERS ON THE JOB

## "U" BENDING TOOLS

Suitable for Bending Round, Square, Flat or Square Twisted Bars into "U" shape or any angle up to 180° with a radius at point of bending to correspond to size of forming pin.

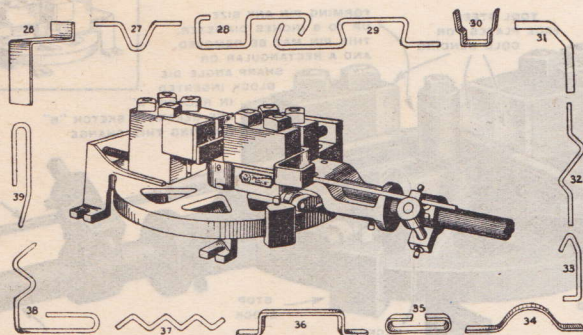


Fig. 24. No. 1 "U" BENDER

"U" bends cannot exceed 8 in. over all, including stock. Inside distance between legs of "U" determines size of forming pin. Forming dies can be easily changed from one size to another.

Rectangular bends can be made by substituting rectangular front die for the round forming pin and bends up to 120° can be made. Stock as light as ¼ x 1 in. can be bent around to 145° without heating by using a special forming block.

NOTE—For hot bending ordinary dies are preferable, but for cold bending steel-faced dies should be used.

For Cold bending: Flat ¼ x 2 in., Round ¾ in., Square twisted ½ in., or equivalent.

For Hot bending: Flat ½ x 2 in., Round 7/8 in., Square ¾ in., Square twisted ¾ in., or equivalent.

### Price List

DESCRIPTION	Gro.	Net	Price	CODE
No. 1 "U" Bender with steel-faced dies for cold bending, complete with stand	115 lbs.	90 lbs.	\$65.00	ENRAYOIR
No. 1 "U" Bender with cast iron dies for hot bending, complete with stand	115 lbs.	90 lbs.	60.00	ENREDABA
Measurements boxed, 10x14x20"=1.62 c.ft.				
Extra Round Forming Dies				
2-inch and under			2.50	
Over 2 in. and up to 4 in.			3.50	
Over 4 in. and up to 6 in.			4.50	
Over 6 in. and up to 7¾ in.			5.50	
Please specify exact size of forming dies wanted, as they are not adjustable				
Special Dies				
Set of Edge Bending Dies with clamping Plate			25.00	ENRIPIO
Angle Iron Die (suitable for bending angle iron after a "V" shaped piece has been cut out of one leg of angle)			10.00	ENRISCADO
Angle Iron Die with Clamping Plate (suitable for bending angle iron without cutting "V" shaped piece out of one leg)			25.00	ENRIVED
Pipe Bending Dies "Equipment C" (suitable for ¾ in., ½ in., ⅜ in. and ¼ in. ordinary iron pipe)			25.00	ENROBAGE

Dies designated as "Equipment C" will bend ordinary iron pipe as follows:

- ¾ in. Pipe (about 1 1/16 in. o. d.) to 3 in. radius.
- ½ in. Pipe (about 27/32 in. o. d.) to 2 in. radius.
- ⅜ in. Pipe (about 11/16 in. o. d.) to 1½ in. radius.
- ¼ in. Pipe (about 9/16 in. o. d.) to 1 in. radius.

If stand is not desired, deduct \$15.00 from List Prices.

DISCOUNT UPON APPLICATION.



NEARLY EVERY FACTORY NEEDS WALLACE BENDERS

## WALLACE "U" BENDING MACHINES

Suitable for Bending Round, Square, Flat or Square Twisted Bars into "U" Shape or any angle up to 180° with a radius at point of bending to correspond to size of forming pin.

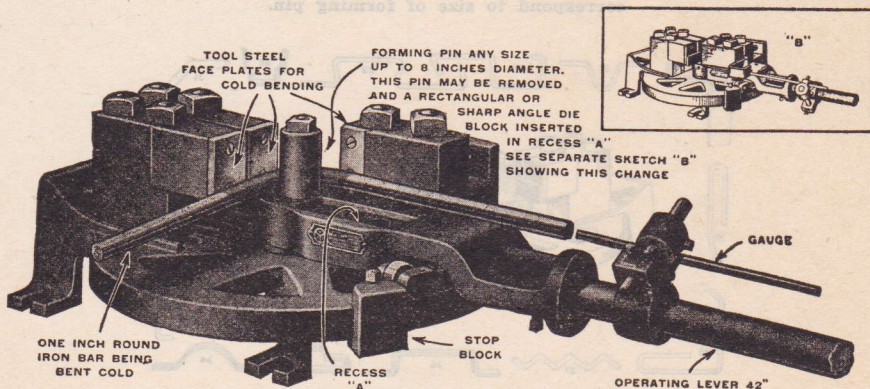


Fig. 28. No. 2 "U" BENDER

"U" bends cannot exceed 8 in. over all, including stock. Inside distance between legs of "U" determines size of forming pin. Forming dies can be easily changed from one size to another.

Rectangular bends can be made by substituting rectangular front die for the round forming pin and bends up to 120° can be made. Stock as light as  $\frac{1}{4} \times 1$  in. can be bent around to 145° without heating by using a special forming block.

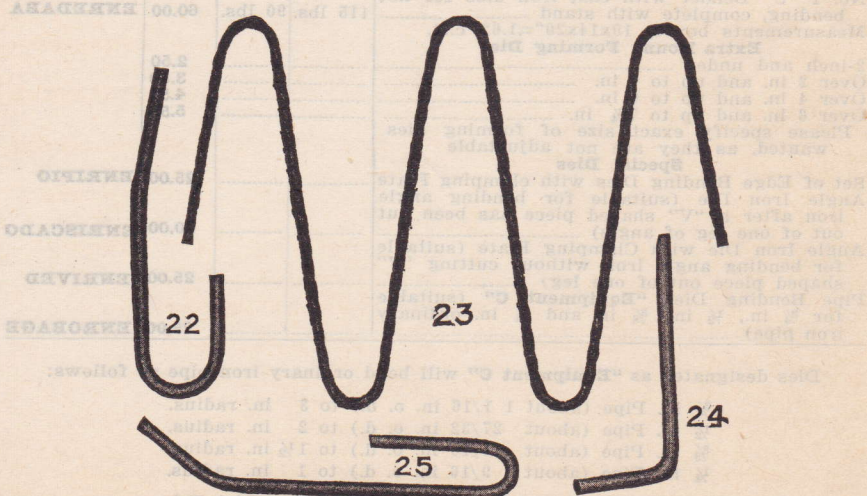
NOTE—For **hot bending** ordinary dies are preferable, but for **cold bending** steel-faced dies should be used.

### Capacity

For **Cold Bending**: Flat  $\frac{3}{4} \times 3$  in., Round 1 in., Square  $\frac{7}{8}$  in., Square Twisted  $\frac{3}{4}$  in., or equivalent.

For **Hot Bending**: Flat  $\frac{3}{4} \times 3$  in., Round  $1\frac{1}{4}$  in., Square  $1\frac{1}{2}$  in., Square Twisted  $1\frac{1}{2}$  in., or equivalent.

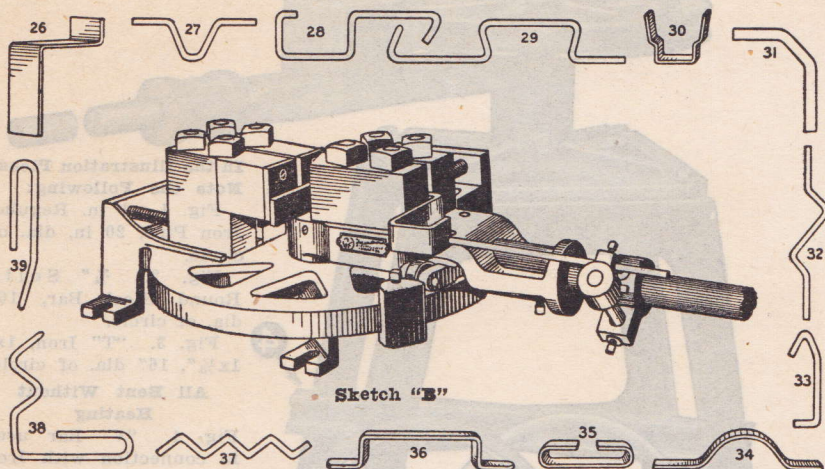
NOTE—When it is desired to bend flat stock of a greater width than the maximum specified for these machines we can arrange special dies to order.



Bends Such as Shown Above Can Be Made on "U" Bending Machines Nos. 1, 2, 6 & 7



## WALLACE "U" BENDING MACHINES



The above illustration will give some idea of how sharp corners at point of bending may be obtained by substituting rectangular front die for the round forming pin and sharp corner bends can be made to any angle up to 120°. See enlarged sketch "B" above, showing rectangular dies in position in place of forming pin. Stock as light as ¼ x 1 in. can be bent around to 145° without heating by using a special forming block. One Round and one Rectangular Die furnished with each machine.

### Price List

DESCRIPTION	Gro.	Net	Price	Code
No. 2 "U" Bender, with steel faced dies for COLD bending, complete with stand .....	285 lbs.	250 lbs.	\$95.00	ENNASSER
No. 2 "U" Bender, with cast iron dies for HOT bending, complete with stand .....	285 lbs.	250 lbs.	90.00	ENROLLED
Measurements, boxed, 14x25x30"=6.07 c. ft.				
<b>Extra Round Forming Dies</b>				
2-inch and under .....			2.50	
Over 2 in. and up to 4 in. ....			3.50	
Over 4 in. and up to 6 in. ....			4.50	
Over 6 in. and up to 7½ in. ....			5.50	
<b>Special Dies</b>				
Set of Edge Bending Dies with Clamping Plate .....			30.00	ENNATION
Angle Iron Die (suitable for bending angle iron after a "V" shaped piece has been cut out of one leg of angle) .....			10.00	ENNASTRAR
Angle Iron Die with Clamping Plate (suitable for bending angle iron without cutting "V" shaped piece out of one leg) .....			30.00	ENNEANDER
Pipe Bending Dies, "Equipment D" (suitable for 1 in., ¾ in. and ½ in., ordinary iron pipe) .....			25.00	ENNENSE
Pipe Bending Dies, "Equipment E" (suitable for ¾ in., ½ in., ¾ in. and ¼ in., ordinary iron pipe) .....			25.00	ENNOBLIR

Dies designated as "Equipment D" will bend ordinary iron pipe as follows:

- 1 in. Pipe (about 1 5/16 in. o. d.) to 4 in. radius.
- ¾ in. Pipe (about 1 1/16 in. o. d.) to 3 in. radius.
- ½ in. Pipe (about 27/32 in. o. d.) to 2 in. radius.

Dies designated as "Equipment E" will bend ordinary iron pipe as follows:

- ¾ in. Pipe (about 1 1/16 in. o. d.) to 3 in. radius.
- ½ in. Pipe (about 27/32 in. o. d.) to 2 in. radius.
- ¾ in. Pipe (about 11/16 in. o. d.) to 1½ in. radius.
- ¼ in. Pipe (about 9/16 in. o. d.) to 1 in. radius.

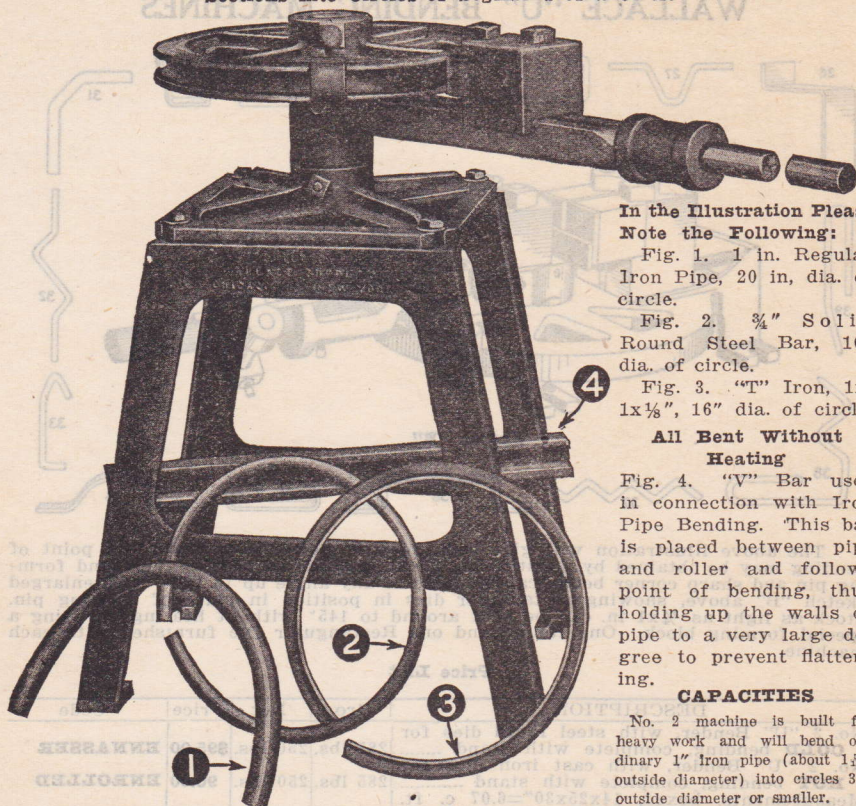
Equipments "D" and "E" are Stock Forms. Special Forms to Order.

DISCOUNT UPON APPLICATION.



# WALLACE RING AND PIPE BENDING MACHINE No. 2

For Forming Flats, Rounds, Squares, Tees, Pipe, Angles, Channels and Special Sections into Circles or Segments of a Circle



In the Illustration Please Note the Following:

Fig. 1. 1 in. Regular Iron Pipe, 20 in. dia. of circle.

Fig. 2.  $\frac{3}{4}$ " Solid Round Steel Bar, 16" dia. of circle.

Fig. 3. "T" Iron, 1x-1x $\frac{1}{2}$ ", 16" dia. of circle.

All Bent Without Heating

Fig. 4. "V" Bar used in connection with Iron Pipe Bending. This bar is placed between pipe and roller and follows point of bending, thus holding up the walls of pipe to a very large degree to prevent flattening.

## CAPACITIES

No. 2 machine is built for heavy work and will bend ordinary 1" iron pipe (about 1 $\frac{3}{8}$ " outside diameter) into circles 32" outside diameter or smaller.

In Cold Bending the diameter of circle should be 12" or more for a  $\frac{3}{4}$ " solid steel bar.

## WEIGHTS

We cannot give accurate weights, as they vary greatly, according to sizes of forms, but are approximately as follows:

Gross weight, crated for domestic shipment	Pounds 400
Gross weight, boxed for export shipment	440
Net weight	360
Measurements, boxed	32x32x42"=25 cubic ft.

## GENERAL DESCRIPTION

As the success with which this work can be done depends so largely upon the section and kind of material to be formed as well as the radius of bend, we advise that full information be submitted to us before ordering. This machine is not capable of making a complete circle as the material formed will remain straight for a distance of about 2 inches at each end, and in the making of complete rings, therefore, the ends have to be formed up slightly by hand when they are being welded together. Also, in forming rings without first heating the stock, the ends will not meet, but will spring back and leave a gap of from one to two inches, depending on the size of material as well as diameter of circle. Specially valuable for making "U" shapes and curves of any degree.



## SAFETY FIRST



Angle Iron Frames, such as used in the construction of wire or expanded metal guards to protect employees from pulleys, gears on machinery, etc., may be easily and quickly made on our No. 2 RING BENDER.

Price, without forming die .....\$120.00

### THE SIZES OF FORMS MOST COMMONLY USED FOR THIS WORK ARE AS FOLLOWS:

16-inch Diameter of Circle	.....\$34.00	24-inch Diameter of Circle	.....\$42.00
20 "	..... 38.00	30 "	..... 48.00

Add the cost of forms to the price of machine.

These forms are suitable for bending Angle Iron up to 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{4}$ " section, with one leg or web of angle either on the inside or the outside of the circle or bend. The work can be done COLD, without buckling, puckering or distorting material. As the forms are interchangeable, more than one size may be ordered for one machine. Forms can be made suitable for the bending of ANGLE IRON, TUBING, PIPE, TEES, CHANNELS, SPECIAL SECTIONS, ROUND OR SQUARE BARS, STRIPS and OBLONG BARS either FLATWISE OR EDGEWISE.

Please state accurately the kind of material you wish to bend, exact section of same, the shape you want to bend it into and the radius of each bend you desire to make as a separate form is required for each section of material as well as for each radius.

### DISCOUNT UPON APPLICATION



# WALLACE RING AND PIPE BENDING MACHINE No. 2

## PRICE LIST

No. 2 RING BENDING MACHINE, inclusive of Stand,  
but WITHOUT FORM .....\*\$120.00 Code: **ENNOEME**  
EXTRA, FOR "V" BAR, FIG. 4, when required ..... 15.00

\*NOTE: ADD PRICE OF FORM DESIRED, AS PER SCHEDULE BELOW.

### CIRCULAR FORMS FOR No. 2 RING BENDING MACHINE

	Price	Code
6 inches or over and not exceeding 12 inches, each .....	\$28.00	<b>BARTRAM</b>
Over 12 inches and not exceeding 16 inches, each .....	34.00	<b>BARTSIA</b>
Over 16 inches and not exceeding 20 inches, each .....	38.00	<b>BARUFFA</b>
Over 20 inches and not exceeding 24 inches, each .....	42.00	<b>BEFRAISE</b>
Over 24 inches and not exceeding 30 inches, each .....	48.00	<b>BEPUFF</b>

### Discount Upon Application

WHEN ORDERING FORMS PLEASE GIVE US COMPLETE INFORMATION  
AS BELOW:

**Kind of Material** (Iron, brass, steel, copper, etc)?

**Radius of Curve** Take measurement from center of circle to the center of material to be bent.

**Degrees of Bend** The number of degrees of a circle through which material is to be bent.

**Square or Round** Give size and kind of material.

**Bars**

**Flat Stock** State whether bend is to be made flatwise or edgewise.

**Tee Iron** Is leg of tee to be in horizontal or vertical position when bending material to a circle in the horizontal plane? If leg is to be in horizontal position please state whether it is to be on the inside or the outside of circle.

**Channel Iron** State whether the legs are to be in a horizontal or vertical position when the stock is bent. If in a horizontal position, state whether on the inside or the outside of circle.

**Angle Iron** State whether the section of angle in the horizontal plane is to be on the inside or the outside of circle. If angle is of unequal section, state dimensions of leg which is to be in the horizontal plane.

**Pipe** If other than ordinary iron pipe state thickness of wall.

**Tubing** Kind of material, and whether soft, medium or hard. Thickness of wall. It is advisable, in all cases, to send a sample.

Send us sketches, whenever possible, showing bends you desire to make.

### EQUIPMENT "G", FOR No. 2 RING BENDER

Consists of forming dies for the following sizes of pipe:

½ in. Pipe to a radius of 3 in. to center of pipe

¾ in. Pipe to a radius of 4 in. to center of pipe.

1 in. Pipe to a radius of 6 in. to center of pipe

1½ in. Pipe to a radius of 8 in. to center of pipe.

Price, per set, \$35.00 Code: **ENRASTEO**

Discount Upon Application.

Special Forms for Tubing and Pipe to any desired radius to order.

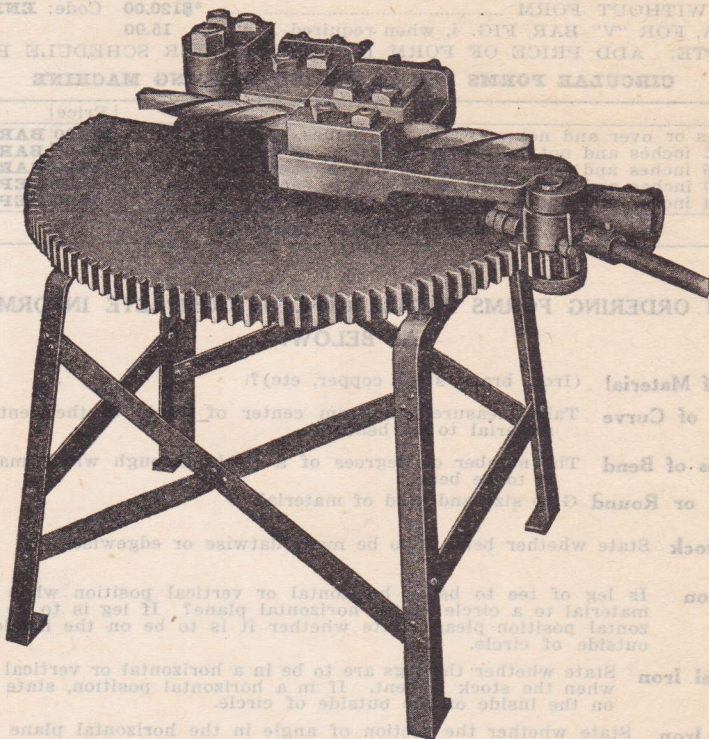
### EQUIPMENT "H", FOR No. 2 RING BENDER

Consists of an inside follower (floating mandrel) having a ball end with knuckle joint. This is made to order only. Please specify outside diameter of tubing, gauge (thickness of wall), whether of brass, steel, copper or iron, and also whether seamless or welded. If possible, submit a sample of the tube or pipe to be bent. Be sure to specify radius and degree of bend required. Price upon receipt of your specifications.



## 2 No. 1 "THE LAST WORD" IN BAR BENDERS

for bending reinforcement bars, or for **HEAVY MANUFACTURING**. Made in two models—right-hand and left-hand



(Starting Position)

### No. 6 "U" BENDER, RIGHT-HAND TYPE No. 7 "U" BENDER, LEFT-HAND TYPE

For **Cold Bending**: Flat  $\frac{3}{4} \times 2$  in., Round  $1\frac{1}{2}$  in., Square  $1\frac{1}{4}$  in., Square Twisted  $1\frac{1}{4}$  in., or less.

For **Hot Bending**: Flat  $1 \times 2$  in., Round  $1\frac{3}{4}$  in., Square  $1\frac{1}{2}$  in., Square Twisted  $1\frac{1}{2}$  in., or less.

#### Pipe Bending

Both the No. 6 "U" and No. 7 "U" types of Benders can be furnished with grooved dies and grooved forms for bending any size of ordinary iron pipe as follows:

$1\frac{1}{4}$  in. Standard pipe size (about  $1\frac{11}{16}$  in. o. d.) to 6 in. radius only.

1 in. Standard pipe size (about  $1\frac{5}{16}$  in. o. d.). Any radius which you may specify from a minimum of 4 in. to a maximum of 6 in.

$\frac{3}{4}$  in. Standard pipe size (about  $1\frac{1}{16}$  in. o. d.). Any radius which you may specify from a minimum of 3 in. to a maximum of 6 in.

$\frac{1}{2}$  in. Standard pipe size (about  $\frac{27}{32}$  in. o. d.). Any radius which you may specify from a minimum of 2 in. to a maximum of 6 in.

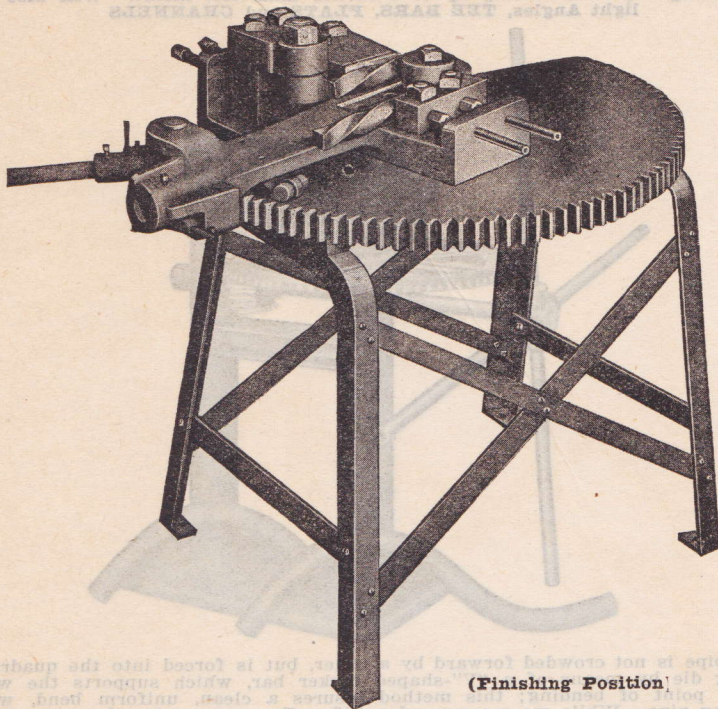
Radius is figured from center of circle to center of pipe.

Any degree of bend up to and including  $180^\circ$ .

Smaller sizes of pipe than those above can be bent on these machines, but it is more practical to use smaller machines, such as "U" benders Nos. 1 and 2.



The illustration on this page as well as that on the opposite page shows the No. 6 "U," or "Right-Hand" type of bender, which operates from right to left. The No. 7 "U" Bender is exactly the same excepting that it operates from left to right.



(Finishing Position)

Designed especially for heavy work, such as bending  $1\frac{1}{4}$  in. square bars, to any desired angle or into a "U" shape. A socket is arranged for the insertion of a piece of bar stock or pipe so the machine can be operated by direct pull instead of by ratchet. This latter feature makes it also applicable to light work. The machine can also be arranged for bending other shapes, such as Channels, "T" Iron, Angle Iron, Pipe, etc.

For bending  $\frac{3}{8}$  in. round or square bars (or equivalent) or anything smaller, the ratchet handle may be thrown out of engagement and direct lever used. A rod or pipe about 4 ft. long is then inserted in the socket provided for that purpose.

In service an auxiliary ratchet lever operates a pinion against a series of teeth in the frame at a large ratio, thus developing great power.

All wearing parts are hardened. Measurements, boxed,  $18 \times 35 \times 44 = 16$  cu. ft.

#### PRICE LIST

DESCRIPTION	Gro.	Net	Price	Code
No. 6 "U" Bender (right-hand) complete with stand	\$25 lbs.	695 lbs.	\$180.00	ENNUYONS
No. 7 "U" Bender (left-hand) complete with stand	\$25 lbs.	695 lbs.	180.00	ENNYCHIE

#### EXTRAS

DESCRIPTION	Price	Code
1 set 4" Dies, for bending flats up to 4" wide	\$20.00	ENPATRON
1 set 6" Dies, for bending flats up to 6" wide	30.00	ENPATRONED
1 set 8" Dies, for bending flats up to 8" wide	40.00	ENPIERCES
Edge Bending Dies, for bending flat stock edgewise	30.00	ENODATION
Angle Iron Die, for bending angle iron after a "V" shaped piece has been cut from upper wing	10.00	ENODATOR
Angle Iron Die with Plate (suitable for bending angle iron without cutting "V" shaped piece out of one leg)	30.00	ENODING
Pipe Bending Dies, Combination "A" suitable for $1\frac{1}{4}$ ", 1", $\frac{3}{4}$ " ordinary iron pipe, all to one radius only	25.00	ENODIOS
Pipe Bending Dies, Combination "B," suitable for $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{8}$ " and $\frac{1}{4}$ " ordinary iron pipe, all to one radius only	25.00	ENOISELER

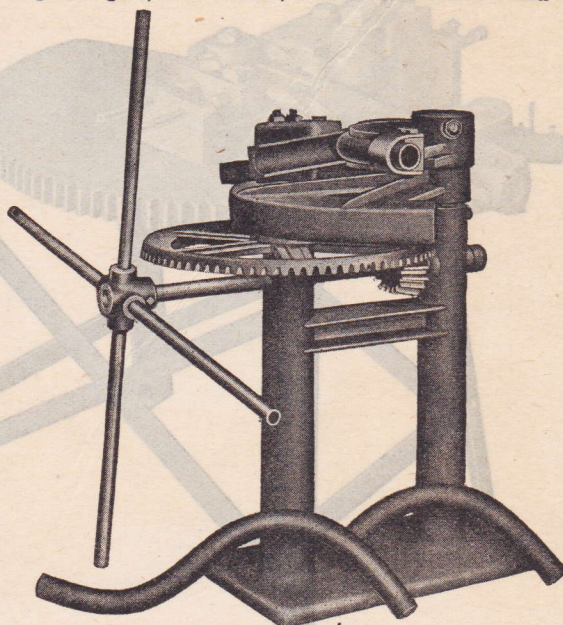
Standard Machines can usually be shipped immediately from stock.

DISCOUNT UPON APPLICATION



## WALLACE IMPROVED No. 5-A PIPE BENDING MACHINE.

**For Bending Pipe and Tubing up to 2 inches diameter, inside. Will also Bend.  
light Angles, TEE BARS, FLATS and CHANNELS**



The pipe is not crowded forward by a roller, but is forced into the quadrant or forming die by means of a "V"-shaped rocker bar, which supports the wall of pipe at point of bending; this method insures a clean, uniform bend, without flattening pipe. While we recommend a 14" radius, or greater, for pipe as large as 2 inches, we have bent this size pipe very successfully to a radius as small as 9"; 1½" pipe to 8", 1¼" pipe to 6", and 1" pipe to 4" radii.

### Regular Equipment Consists of the Following Forms:

- 1 Quadrant for bending 1" ordinary iron pipe to 6" radius.
- 1 Quadrant for bending 1¼" ordinary iron pipe to 9" radius.
- 1 Quadrant for bending 1½" ordinary iron pipe to 12" radius.
- 1 Quadrant for bending 2" ordinary iron pipe to 14" radius.

**Special Forms will be furnished at extra cost.**

### Approximate Weights and Measurements.

Gross weight, crated for domestic shipment, 1130 lbs.  
Gross weight, boxed for export shipment, 1230 lbs.  
Net weight, 985 lbs.  
Measurements, boxed, 37x50x51"=55. c. ft.  
Price, complete with regular equipment, hand operated.....**\$250.00**  
Price of No. 5-A Pipe Bender arranged for power drive, but exclusive of motor or countershaft.....**550.00**

Code: **ENROSCANDO.**

## WALLACE No. 14 SPECIAL PIPE BENDER.

We build this machine to order only. It is hand operated and capable of bending ordinary iron pipe 1" to 4" inside diameter. Drawings upon application.  
Price, complete with regular equipment (4 forms).....**\$600.00**

Code: **ENQUICKEN**

## WALLACE No. 9 SPECIAL POWER DRIVEN PIPE BENDER.

This machine is not carried in stock, but is built to order. Will bend ordinary iron pipe from 1" to 4" inside diameter. Drawings upon application.  
Price, complete with regular equipment (4 forms) but without motor.....**\$1200.00**

Code: **ENQUIERS.**

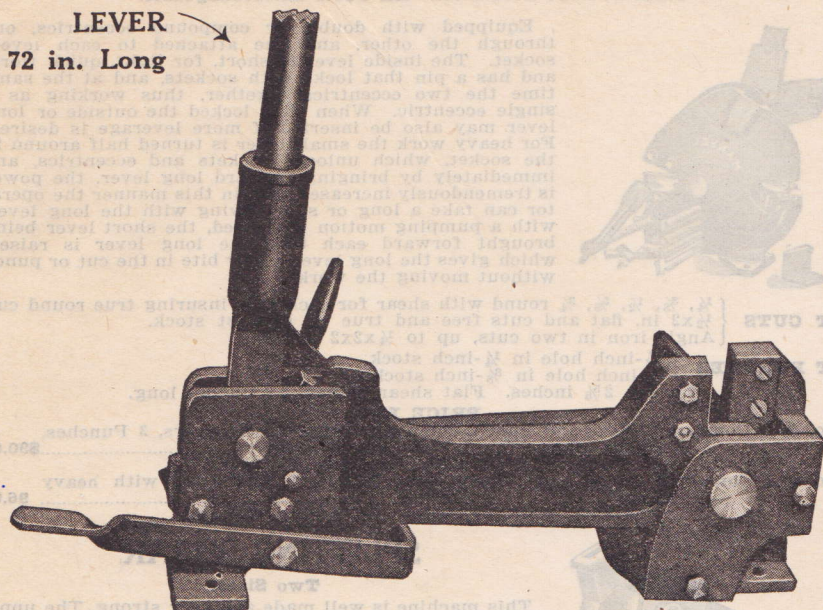
Standard machines can usually be shipped immediately from stock.

**DISCOUNT UPON APPLICATION.**



# WALLACE No. 167 BAR CUTTER

MADE ENTIRELY OF STEEL



This is considered to be the most powerful bar cutter, for its size and weight, that is made anywhere in the world. Its over all length is only 35 in., width 8 in., and height from floor to top of cutting jaw 11 in. It can be operated by one man; lever consists of a piece of ordinary iron pipe 72" long.

Net weight, including lever, only 195 lbs.

## CAPACITY

Square Twisted Reinforcement Bars .....	1 1/4" or less, Cold
Square Mild Steel Bars .....	1 1/4" or less, Cold
Round " " " .....	1 3/8" or less, Cold
Flat " " " .....	3/4 x 3" or less, Cold

## Approximate Weights and Measurements

	Without Lever	Lever
Gross weight, crated for domestic shipment .....	212 lbs.	*
Gross weight, boxed for export shipment .....	225 lbs.	30 lbs.
Net weight .....	178 lbs.	17 lbs.

Measurements, boxed, 11x16x40"=4. cubic feet.

\*For domestic shipment the lever is not crated nor boxed, but is simply tagged and shipped separately with the machine. When boxed for foreign shipment the measurements are: 4x4x74"=1. cubic foot.

## Price List

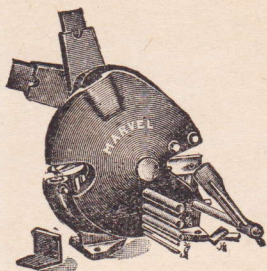
No. 167 Bar Cutter, complete .....	\$180.00	Code: Enritmo
Extra Cutter Blades, per pair .....	12.00	" Enriving

DISCOUNT UPON APPLICATION.



## COMBINED SHEAR AND PUNCH

Made of Malleable Iron. Equipped With Double Lever. Blades, Punches and Dies Made of Best Tool Steel. All Parts Interchangeable.



Equipped with double or compound eccentrics, one through the other, and one attached to each lever-socket. The inside lever is short, for light, quick work, and has a pin that locks both sockets, and at the same time the two eccentrics together, thus working as a single eccentric. When thus locked the outside or long lever may also be inserted if more leverage is desired. For heavy work the small lever is turned half around in the socket, which unlocks sockets and eccentrics, and immediately by bringing forward long lever, the power is tremendously increased, and in this manner the operator can take a long or short swing with the long lever, with a pumping motion if desired, the short lever being brought forward each time the long lever is raised, which gives the long lever a new bite in the cut or punch without moving the work.

- IT CUTS** {  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$  round with shear for each size, insuring true round cut.  
 $\frac{1}{2} \times 2$  in. flat and cuts free and true on lightest stock.  
 Angle iron in two cuts, up to  $\frac{1}{4} \times 2 \times 2$  inches.
- IT PUNCHES** {  $\frac{1}{2}$ -inch hole in  $\frac{1}{4}$ -inch stock.  
 $\frac{3}{8}$ -inch hole in  $\frac{3}{8}$ -inch stock.  
 Throat,  $2\frac{1}{2}$  inches. Flat shear blades,  $3\frac{3}{4}$  inches long.

### PRICE LIST

- No. 2.** Combined Shear and Punch, complete with 2 Steel Levers, 3 Punches, 3 Dies and Gauge for flat and round shearing.....\$90.00  
 CODE: ENRIPEN. Net weight, 155 lbs.
- No. 2-A** Combined Shear and Punch, same as above, and fitted with heavy iron legs..... 96.00  
 CODE: ENRIPENTED. Net weight, 210 lbs.

## SPLITTING SHEAR

### Two Sizes.

This machine is well made and very strong. The upper shear bearing is on an angle, and thus lessens the strain on the machine. The stripper, or hold down, is so placed that a line on material can be easily followed. It shears swinging lever either way.

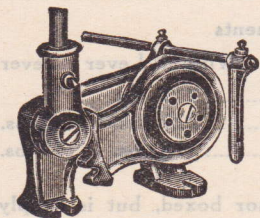
No. 1 will shear sheets  $\frac{1}{8}$  inch thick, or less, any length or width.

No. 2 will shear sheets  $\frac{1}{4}$  inch thick, or less, any length or width.

Weight	Length. Blade	Price	Code
No. 1, 55 lbs.	4 inches	\$29.00	ENNUVEAR
No. 2, 200 lbs.	6 inches	71.00	ENNUYANTE

Lever with each machine.

**NOTE**—All No. 2 Shears are fitted with an attachment fixed to the end of the eccentric by which the throw of the eccentric can be changed from a long to a short throw for heavy work, or from a short to a long throw for light work by the simple movement of a small steel pin in the attachment. This is a very simple and valuable attachment.



## HANDY ROD CUTTERS

### In Three Sizes.

### A NECESSITY IN EVERY SHOP

Cutting Dies have round openings of correct size to cut rods and wire within the capacity of the machine, which insures good work with ends round and true.

The Rod Cutter is so arranged as to bring the lever at a convenient height from the bench, and the gearing is so placed as to remove all danger of crushing the operator's hand. The round Steel Lever can be instantly removed when desired.

The center of leverage is down low, which lessens the pull on the bench. The neat Gauge is very handy when cutting a number of pieces of the same length.

### PRICE LIST.

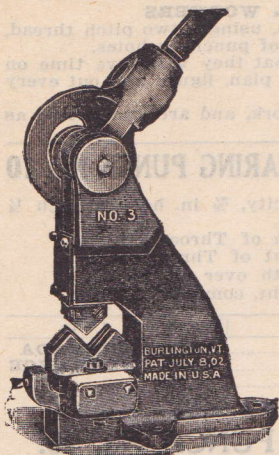
- No. 5.** Cuts rods  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{8}$  in. and intermediate sizes. Weight, 12 lbs.  
 Price complete with Lever, Gauge and Gauge Rod. CODE: ENRAVISH.....\$ 9.50
- No. 6.** Cuts rods  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{8}$  in. and intermediate sizes. Weight, 35 lbs.  
 Price complete with Lever, Gauge and Gauge Rod. CODE: ENRAVISHED..... 19.75
- No. 7** Cuts rods  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{8}$  in. and intermediate sizes. Weight, 95 lbs.  
 Price complete with Lever, Gauge and Gauge Rod. CODE: ENRAYEMENT 35.00

**NOTE**—Capacities as given are for ordinary soft steel rods and not for high carbon steel reinforcement bars.

**DISCOUNT UPON APPLICATION.**



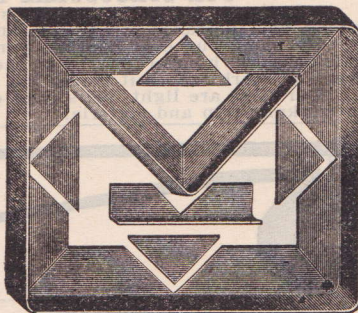
# ANGLE IRON CUTTING AND NOTCHING



## MACHINE No. 3

This machine is equipped with two sets of blades and dies; one set for cutting off angles and the other set for notching angles. (See illustration opposite.) An exceptionally well built and well designed machine for this class of work.

Net Weight, 325 lbs. Gross Weight, 355 lbs.



## CAPACITY

Will shear angle iron 2 1/4 in. x 2 1/4 in. x 1/4 in. or smaller.

Will notch angle iron 2 1/4 in. x 2 1/4 in. x 1/4 in. or smaller.

Will shear flat iron bars or bands 2 1/4 in. x 1/4 in. or lighter.

## PRICES

	Price	Code
No. 3, fitted with two sets of dies (1 set for cutting and 1 set for notching)	\$115.00	BOCELABA
No. 3A, fitted with one set of dies suitable for cutting angle iron only, or for shearing flat bars	85.00	BOCELAMOS
No. 3B, fitted with one set of dies suitable for notching angle iron only	85.00	BOCELANDO
Extra Shear Blades, each	6.00	BOCELARON
(3 Blades required per set.)		



"Junior" Punch  
No. 5

For Outdoor Construction Work, Repair Work. Made of Drop Forging, .40 to .50 Open Hearth Steel Heat Treated.

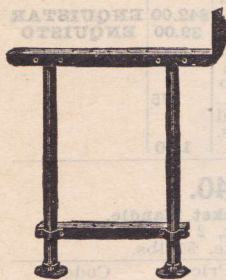
## THE LIGHTEST AND MOST POWERFUL OF ITS SIZE MADE

Our No. 5 Will Punch 1/4 In. Hole Through No. 16 Gauge Iron or Its Equivalent

Weight, 2 3/4 lbs.; punch in center of 3 1/4 in.; length over all, 8 1/4 in.; height of gap, 1 1/2 in.

	Price	Code
Price, including 3 Sets of Punches and Dies, 1/8, 1/4, 3/8 in.	\$ 9.00	ENRAPTURE
Extra Punches and Dies, per set of 3	1.50	ENRAGIONS
Other sizes made to order, each	1.00	

## BENCH BASES.



TYPE "H"

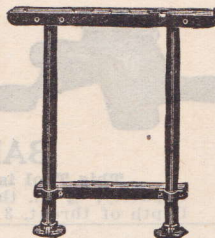
Width over all, 29 1/2"; height, 32". Top angle for Bench, 2x1 1/2x1/2". Bottom Angle for Shelf, 1 1/2x1 1/2x22" long. Legs, Tubing, 2" O. D. Weight, complete with one shelf bracket, as shown, 20 lbs.

Angles for top of bench and for shelving are pierced to take 3/16" diameter wood screws.

Shelf bracket is adjustable to any desired height 3" from the floor up.

General description of type "H" Bench Base is the same as type "F" excepting that the top angle is bent up so that a back-board may be applied.

All Bases are painted black.  
Special sizes can be furnished to order.



TYPE "F"

	PRICE LIST	Each	Code
Type "F" Bench Base, complete with one shelf bracket as shown		\$3.50	CARROCINES
Type "H" Bench Base, complete with one shelf bracket as shown		4.00	ENOSTOSE
Extra Angle Iron Shelf Brackets, suitable for either type of Base		.75	CARROCO

DISCOUNT UPON APPLICATION.



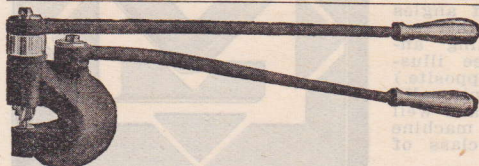
# ALL BALL BEARING PORTABLE ROTARY HAND METAL PUNCHES

## FOR STRUCTURAL AND SHEET METAL WORKERS

NOTE—By using Ball Bearings we offset the friction, using a two pitch thread, giving you increased production, and reducing the cost of punching holes.

By using our Ball Bearing Punches you will find that they will save time on outside work, high or low, or in the shop, not having to plan, figure and cut every detail of work before it leaves the shop.

Our tools are light, yet strong enough to do their work, and are guaranteed as to workmanship and material.



### BALL BEARING PUNCH NO. 10

Capacity,  $\frac{3}{8}$  in. hole through  $\frac{1}{4}$  in. iron.

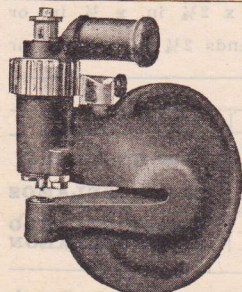
Depth of Throat,  $1\frac{1}{2}$  in.

Height of Throat,  $\frac{3}{8}$  in.

Length over all, 18 in.

Weight, complete,  $8\frac{1}{2}$  lbs.

	Price	Code
Price, with 1 punch and die.....	\$20.00	ENRAMADA
Price, complete with base and 1 punch and die.....	22.00	ENDURANCE
Extra punches and dies, each.....	.50	
Extra riveting punches and dies, each.....	1.25	



### BALL BEARING PUNCH No. 15.

Capacity,  $\frac{5}{8}$  in. hole through  $\frac{1}{2}$  in. iron.

Punch in center of  $7\frac{3}{4}$  in.

Height of gap,  $\frac{3}{8}$  in.

Has ratchet head.

Weight complete, 21 lbs.

Punches and dies carried in stock,  $\frac{1}{8}$  in. to  $\frac{1}{4}$  in. by  $\frac{1}{16}$  in.

The feature of this Tool is its Deep Throat Capacity. It is made of Crucible Steel Casting, heat treated throughout.

	Price
Price, with Ratchet Head and one Punch and Die of a stock size.....	\$58.00
Extra Punches and Dies, stock sizes, each.....	.50
Extra Riveting Punches and Dies, each.....	1.25

Code: ENRAMADOS

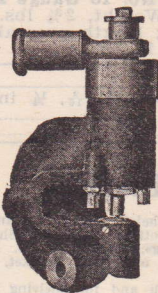
Patented Nov. 15, 1910  
One-Half Turn Drives  
the Lever Through  
 $\frac{1}{4}$  in. Metal.

### BALL BEARING PUNCH No. 20.

This Tool is made of  
Nikrome Steel and  
Heat Treated  
Throughout.

It will not only Punch  
Holes, but Rivet as  
well.

Patented Nov. 15, 1910



Capacity,  $\frac{1}{2}$  in. hole through  $\frac{1}{2}$  in. iron.

Depth of throat, 2 in.

Height of throat,  $1\frac{1}{8}$  in.

Weight, complete, 20 lbs.

	Price	Code
Price, including one Punch and Die of any size and Base.....	\$42.00	ENQUISTAR
Without Base.....	39.00	ENQUISTO
Punches and Dies, Regular Stock, $\frac{1}{4}$ in. by $\frac{1}{8}$ in. to $\frac{1}{2}$ in. Price, each.....	.75	
Extra Riveting and Punching Dies, each.....	1.50	

### BALL BEARING PUNCH No. 40.

This Tool is Equipped with a Ratchet Head and Socket Handle.

Capacity,  $\frac{3}{4}$  in. through  $\frac{3}{4}$  in. iron.

Depth of throat, 3 in.

Height of throat, 2 in.

Weight, complete, 51 lbs.

	Price	Code
Price of Tool, without Base.....	\$120.00	ENRACINER
Price of Tool, with Base.....	124.00	EHRENKETTE
Extra Punches and Dies, each.....	1.50	

Don't compare this tool with the ordinary Screw Punch. It's different—much faster and better. Every frictional point ball bearing. All wearing parts hardened throughout.

#### Pressure Required for Punching, Per Square Inch

Capacity of No. 10, $\frac{3}{8}$ in. through $\frac{1}{4}$ in.....	14,700 lbs.
Capacity of No. 15, $\frac{5}{8}$ in. through $\frac{1}{2}$ in.....	15,300 lbs.
Capacity of No. 20, $\frac{1}{2}$ in. through $\frac{1}{2}$ in.....	39,300 lbs.
Capacity of No. 40, $\frac{3}{4}$ in. through $\frac{3}{4}$ in.....	88,400 lbs.

DISCOUNT UPON APPLICATION.



## AN OLD STANDARD STEEL STOOL WALLACE No. 2



### A WIDE, COMFORTABLE SEAT

14½ inches in diameter, is one of the good features of No. 2 Stool. It is of hard wood and finished in mahogany. This stool has come to be one of the most popular numbers among employers of women workers.

### NET PRICES ON NO. 2 STOOL

Height	Per Dozen
18 inches .....	\$27.00
20 inches .....	28.00
22 inches .....	29.00
24 inches .....	30.00

## THE GREAT WAR-TESTED STOOL

Nos. 100 and 110 type of stool proved a tremendous success under war conditions—several of the large ammunition factories purchasing thousands of these stools. Cross bracing makes this design exceptionally rigid of construction—resisting the wear and tear of constant bodily rotation. This type is similar to No. 2 plus the cross bracing. It has 13½ inch hard wood seat and is finished in standard green enamel, baked on.

### NET PRICES ON NO. 100, WITHOUT BACK

Height	Per Dozen
20 in. ....	\$26.50
22 in. ....	27.00
24 in. ....	27.50
26 in. ....	28.00
28 in. ....	28.50

### NET PRICES ON NO. 110, WITH SPRING STEEL BACK

Height	Per Dozen
20 in. ....	\$35.00
22 in. ....	36.00
24 in. ....	37.00
26 in. ....	38.00
28 in. ....	39.00

DISCOUNT UPON APPLICATION

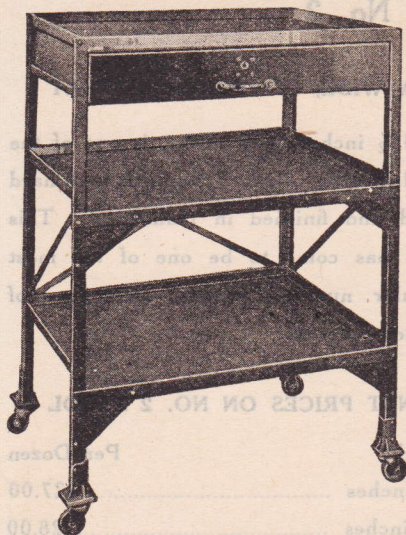


New No. 110



## WALLACE QUALITY STEEL TRUCKS

### A POPULAR MACHINE-TENDER



No. 218-D

is No. 218D. It supports tools and parts at the correct height and can be quickly moved around. It is 35 inches high, placing the top shelf and drawer at the proper height for most machines, with the two shelves within easy reach. The drawer permits the operator to keep valuable tools or small parts locked. It is 24 inches wide, 18 inches long and  $3\frac{1}{2}$  inches deep, made of 20 gauge sheet steel. The frame is of angle-steel cross-braced in back and diagonally braced on the ends with band iron. The front edge of the shelves have additional supports in the heavy metal triangular plates. The four revolving casters have 2-inch diameters and are 1 inch wide. Every joint is hand-riveted so that the part will not become loose or weak. The finish is of the usual rich dark green enamel—BAKED ON.

No. 218D, with a lock drawer, as shown, is priced at **\$180.00** a dozen or **\$16.00** each.

No. 218DT, with lock drawer and an extra loose top-tray, is priced **\$204.00** a dozen or **\$18.00** each.

No. 218, without drawer or loose top-tray, priced **\$140.00** a dozen or **\$12.50** each.

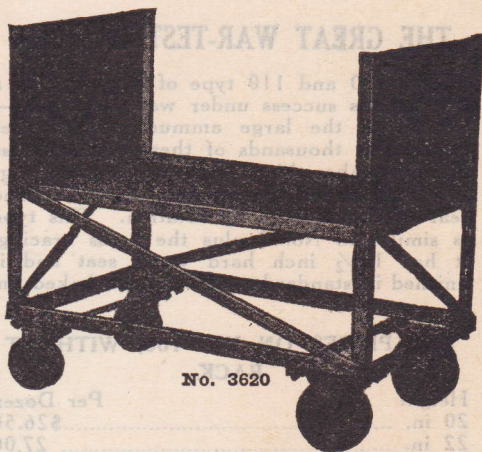
## TRUCKS FOR HEAVY TRANSPORTATION

This truck is designed for rapid inter-factory or department transportation. It is exceptionally strong and rigid in construction—built to carry heavy loads. It is of all-steel type, angle steel being used for the corner posts, lower frame, and reinforcement of the bed plate. The angle-steel frame is diagonally braced with band iron. The bed-plate and ends are made of heavy sheet steel, the area and height from the floor varying with different trucks. The edges of the bed plate are turned up, unless otherwise ordered. The casters are of heavy type, in two different sizes. The larger size are fixed stationary, while the smaller roller bearing casters are pivoted for easy guiding.

Every joint is hand-riveted. The finish of the truck is of rich dark green enamel—BAKED ON.

These trucks will be provided with steel sides—so that the top portion becomes a tight steel box, at a slight additional charge.

The trucks may be had in a number of different sizes.



No. 3620

- |           |  |         |
|-----------|--|---------|
| No. 3020  | Truck, has an area of 30x20 inches, is 20 inches high, with casters of 4- and 5-inch diameter..... | \$16.50 |
| No. 3620  | Truck with a 36x20 inch bed-plate, is 20 inches high, and 5- and 6-inch casters.....               | 18.00   |
| No. 4024  | Truck is 12 inches high, has an area of 40x24 inches; and 5- and 6 inch casters.....               | 22.00   |
| No. 4024B | Truck, is 20 inches high, has a bed-plate area of 40x24 inches and 5- and 6-inch casters.....      | 22.00   |

Can furnish rubber tire casters also, at additional price.

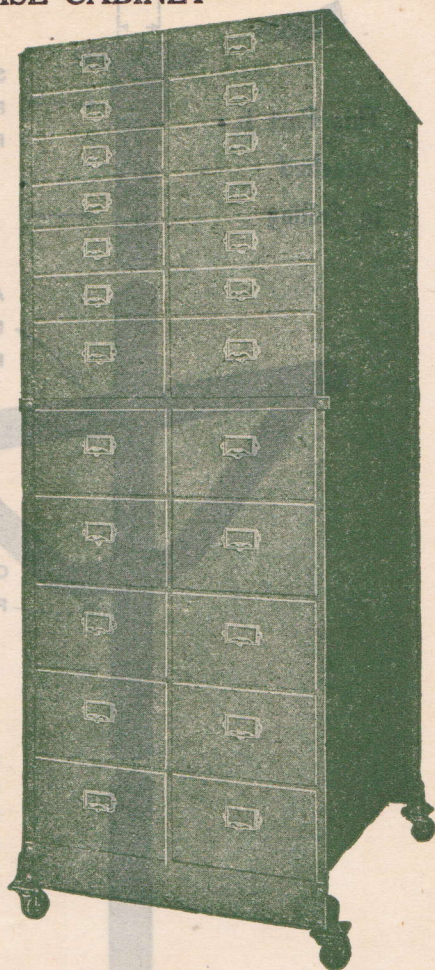
**DISCOUNT UPON APPLICATION.**



## WALLACE ALL STEEL FILING OR MERCHANDISE CABINET

This cabinet is one that can be used for general factory purposes. Its steel construction makes it adaptable for most harsh treatment and a very efficient unit for protection of office, shop and factory records or merchandise and tools. Often, it is used as a unit in systematic files.

It is steel-encased and dust-proof. The top will stand heavy weight. The cabinet is of heavy sheet steel, 63 inches high, 22 inches wide and 16 inches deep. It has twenty-four drawers, twelve of which are 10 inches wide, 15 inches long and 3 inches high, while the other twelve are 10 inches wide, 15 inches long and 6 inches deep. The cabinet is mounted on roller bearing casters. The finish is of rich dark green enamel—BAKED ON. The total weight is 125 pounds. No. 24, with 24 drawers.....\$55.00 each



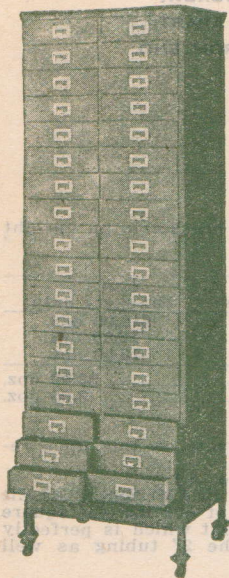
No. 24

### No. 36 CABINET.

Much like No. 24 in construction, but 70 inches high, 23 inches wide, 16 inches deep and possesses 36 drawers, each ten inches wide, 15 inches deep and 3 inches high. Its uses are numerous, including the protecting of all kinds of records or tools.

The drawers may be sub-divided into small compartments. The cabinet is steel-encased and dust proof. It is made of black sheet steel, finished with rich dark green enamel—BAKED ON.

No. 36 with 36 drawers.....\$65.00 each



No. 36

**DISCOUNT UPON APPLICATION.**



## TYPE "A" BRACKET

This Part is  
Attached  
to Ceiling

3" FLANGE TO PROVIDE  
FOR ANY UNEVENNESS IN  
FLOOR OR CEILING.

IRON PIPE

ANGLE IRON CAN  
BE MADE LONGER OR SHORT-  
ER TO ORDER.

CLAMPS CAN BE ARRANGED  
FOR ANY SIZE PIPE TO ORDER.

HOLES PUNCHED IN ANGLE  
IRON ON EACH SIDE OF PIPE,  
SUITABLE FOR NO. 14 OR  
SMALLER WOOD SCREW.  
HOLES SPACED 3" APART,  
FIRST HOLE  $\frac{3}{4}$ " FROM END.

The above illustration shows the application of a type "A" bracket to an upright stanchion of ordinary  $1\frac{1}{2}$ " iron pipe.

### PRICE LIST

Type	Width over all	Size of Angle iron used in bracket	Size of pipe	Price of Brackets only
No. 10-A	24"	$1\frac{3}{8}$ " x $\frac{7}{8}$ " x $1\frac{1}{8}$ " x 24"	$1\frac{1}{4}$ "	\$12.00 doz.
No. 11-A	30"	2" x $1\frac{1}{2}$ " x $\frac{7}{8}$ " x 30"	$1\frac{1}{2}$ "	16.00 doz.
No. 12-A	36"	2" x $1\frac{1}{2}$ " x $\frac{7}{8}$ " x 36"	$1\frac{1}{2}$ "	18.00 doz.

No. 16 Floor and Ceiling Flanges for $1\frac{1}{2}$ " iron pipe	\$3.00 doz.
No. 17 Floor and Ceiling Flanges for 2" o. d. tubing	3.00 doz.

### STANDARD IRON PIPE

Owing to fluctuation in prices of iron pipe we can only quote on this upon receipt of request.

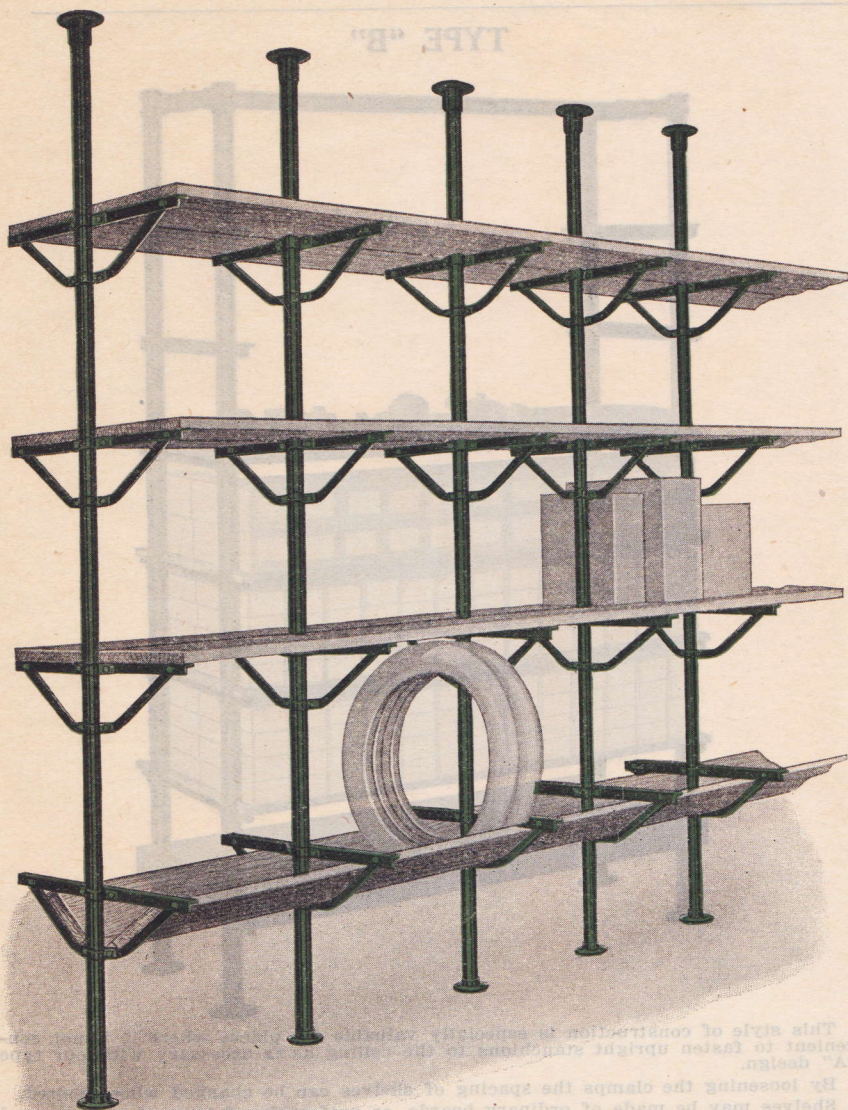
### SEAMLESS BOILER TUBING (SIZE 2 IN. O. D.)

We have on hand a considerable quantity of DEFECTIVE SEAMLESS BOILER TUBING 2 IN. OUTSIDE DIAMETER, made to stand a test of 500 lbs. the square inch, which was rejected on account of some slight defect, but which is perfectly good for structural purposes. Brackets are suitable for the 2" tubing as well as the  $1\frac{1}{2}$ " pipe.

### DISCOUNT UPON APPLICATION



# WALLACE TYPE "A"



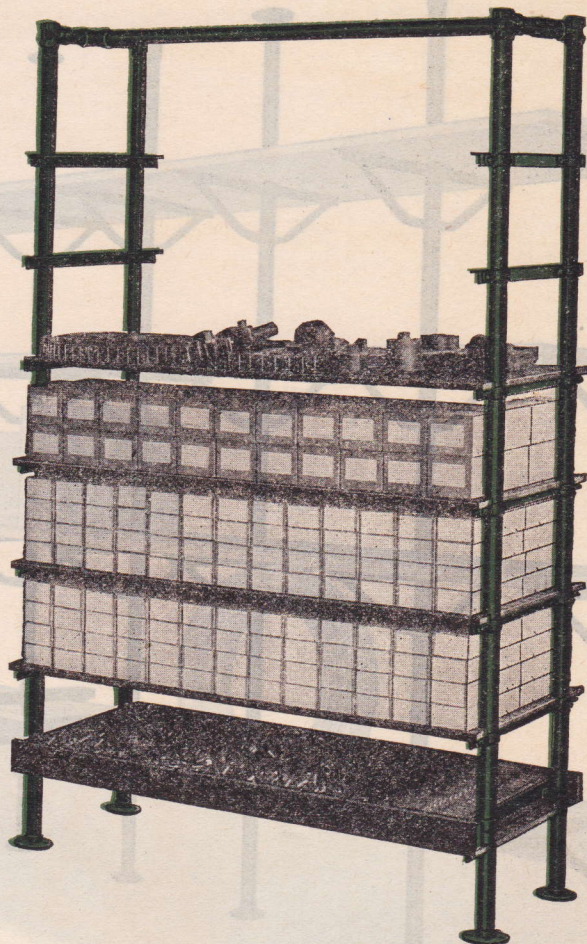
This illustration shows how, by the use of "Wallace" Type "A" Brackets (see details on opposite page), a very neat and inexpensive system of shelving may be built. For price schedule of brackets of various sizes see page 42.

Spacing of shelves can be changed whenever occasion demands.



# WALLACE ECONOMICAL, SANITARY SHELF CONSTRUCTION

## TYPE "B"



This style of construction is especially valuable for places where it is not convenient to fasten upright stanchions to the ceiling as is necessary with our type "A" design.

By loosening the clamps the spacing of shelves can be changed when desired.

Shelves may be made of ordinary boards, or preferably of tongued and grooved flooring, which gives a more uniform surface and a stiffer shelf. Trays can also be made for storing small parts as may be seen by examining closely the lower shelf in illustration.

This construction is furnished in units 5 ft. 4 in. long by 8 ft. 6 in. high over all. Depth of shelves 24 in.

All parts painted **Olive Green**.

### PRICE LIST

Complete unit with 4 upright stanchions, angle iron supports for 7 shelves, but not including boards for shelving.....	\$25.00
Steel shelves, 24 in. wide by 5 ft. 0 in. long, built up out of Angle Iron and Steel Sheets, per shelf .....	6.50
Extra Angle Iron supports, each.....	.75
All material shipped knocked down.	

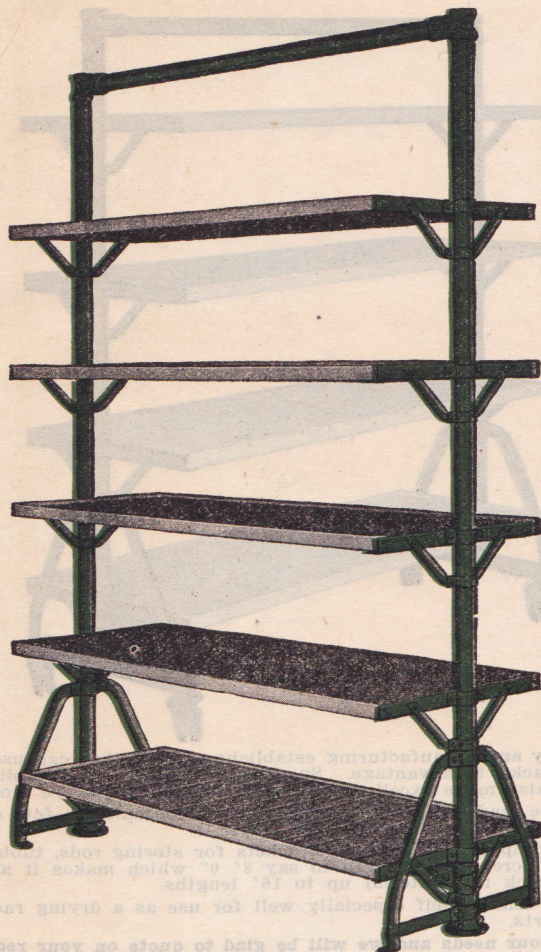
We make to order units of special dimensions when required.

**DISCOUNT UPON APPLICATION**



# WALLACE ECONOMICAL, SANITARY SHELF CONSTRUCTION

## TYPE "C"



Upright stanchions and cross connections for same are made of 2 in. o. d. Boiler Tubing. All fittings are malleable iron. Brackets and braces are made of bar steel.

This style of construction combines the advantages of being a self-contained unit which can be set up anywhere on the floor, provides maximum accessibility to shelves and presents a very neat appearance.

Brackets are adjustable and can be spaced to suit.

This construction is furnished in units of 5 ft. 4 in. long by 8 ft. 0 in. high over all. Depth of shelves 24 in.

All parts painted Olive Green.

### PRICE LIST

Complete with 2 upright stanchions and end brackets for 5 shelves only, but exclusive of shelves .....\$30.00

Steel shelves, 24 in. wide by 5 ft. 0 in. long, built up out of Angle Iron and Steel Sheets, per shelf ..... 6.50

Extra end brackets for supporting shelves, each ..... 1.00

All material shipped knocked down.

We make to order units of special dimensions when required.

**DISCOUNT UPON APPLICATION.**



# WALLACE

# ECONOMICAL, SANITARY PORTABLE SHELVES

## TYPE "D"



There is hardly any manufacturing establishment but that can use one of these portable shelf racks to advantage. Specially valuable in assembling, drying or packing rooms; also make excellent display stands for hardware stores, etc.

Shelves may be made of wood or steel and by loosening a few screws can be spaced to suit individual requirements.

Rack can be equipped with special brackets for storing rods, tubing, pipe, bars, etc. and can be increased in length to say 8' 0" which makes it a very suitable and convenient rack for material up to 16' lengths.

This rack also lends itself especially well for use as a drying rack in painting or baking of parts.

**Let us know your needs and we will be glad to quote on your requirements.**

Mounted on anti-friction swivel rollers and can be easily moved from place to place.

Upright stanchions and cross connections for same are made of 2 in. o. d. Boiler Tubing. All fittings are malleable iron. Brackets and braces are made of steel.

Trays can also be made for storing small parts. By loosening a few screws, shelves can be spaced to suit.

Furnished in units of 5 ft. 4 in. long by 6 ft. 9 in. high over all. Depth of shelves 24 in.

All parts painted Olive Green.

### PRICE LIST

	Price
Complete with 2 upright stanchions and end brackets for 4 shelves only, but exclusive of shelves	\$35.00
Steel shelves, 24 in. wide by 5 ft. 0 in. long, built up out of Angle Iron and Steel Sheets, per shelf	6.50
Extra end brackets for supporting shelves, each	1.00
All material shipped knocked down.	

We make to order units of special dimensions when required.

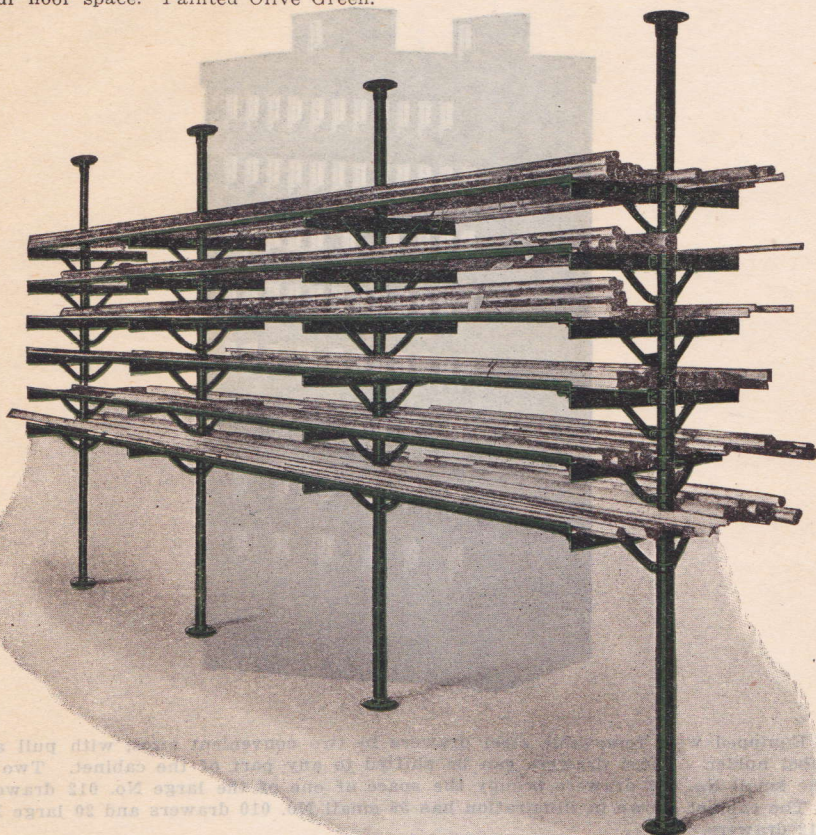
**Discount Upon Application.**



# WALLACE ECONOMICAL, SANITARY STEEL STOCK RACK

## TYPE "E"

Until you have seen one of these racks in a machine shop or other place where miscellaneous sizes and kinds of rods, bars, pipe, tubing, etc., have to be stored for easy access, you cannot appreciate what a remarkable saving and convenience it really is. A small steel angle fastened to the end of each bracket formation (1" high) is to prevent round bars from rolling off. **Note the clearance underneath where you can store barrels, boxes, etc.** This rack does not eat up your floor space. Painted Olive Green.



### PRICE LIST.

Type	Width over all	Size of Angle iron used in bracket	Size of pipe	Price of Brackets only
No. 13-E	24"	1 3/4" x 7/8" x 1/2" x 24"	1 1/2"	\$13.50 doz.
No. 14-E	30"	2" x 1 1/2" x 1/2" x 30"	1 1/2"	17.50 doz.
No. 15-E	36"	2" x 1 1/2" x 1/2" x 36"	1 1/2"	19.50 doz.

No. 16 Floor and Ceiling Flanges for 1 1/2" iron pipe.....\$3.00 doz.  
No. 17 Floor and Ceiling Flanges for 2" o. d. tubing..... 3.00 doz.

### STANDARD IRON PIPE

Owing to fluctuation in prices of iron pipe we can only quote on this upon receipt of request.

### SEAMLESS BOILER TUBING (SIZE 2 IN. o. d.)

We have on hand a considerable quantity of DEFECTIVE SEAMLESS BOILER TUBING 2 IN. OUTSIDE DIAMETER, made to stand a test of 500 lbs. the square inch, which was rejected on account of some slight defect, but which is perfectly good for structural purposes. Brackets are suitable for the 2" tubing as well as the 1 1/2" pipe.

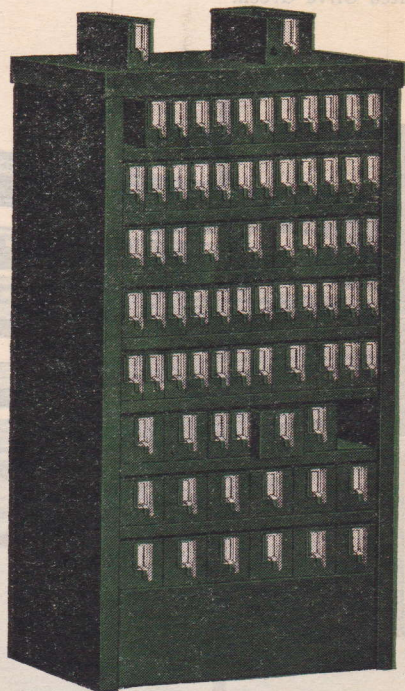
### DISCOUNT UPON APPLICATION.



## STORAGE CABINET FOR SMALL PARTS

Every shop has need of a cabinet for storing small parts, such as springs, split-spring washers, nuts, bolts, screws, tools, oil cups, cocks, etc., etc.

Usually when these parts are wanted they must be supplied quickly, and the time you can save in hunting will soon pay for our cabinet, to say nothing of the economy in space and preventing parts from being lost or thrown out. Our cabinet provides "a place for everything, and everything in its place."



Equipped with removable steel drawers in two convenient sizes, with pull and label holder. These drawers can be shifted to any part of the cabinet. Two of the small No. 010 drawers occupy the space of one of the large No. 012 drawers.

The cabinet shown in illustration has 56 small No. 010 drawers and 20 large No. 012 drawers.

Cabinets have a capacity of 96 No. 010 drawers or 48 No. 012 drawers.  
Color: Olive Green Enamel 2 coats, baked.

Net weight of Cabinet ..... 75 lbs.  
Weight, packed for shipment..... 125 lbs.

Height ..... 37  $\frac{3}{4}$  in.  
Width ..... 20  $\frac{1}{8}$  in.  
Depth ..... 10  $\frac{1}{2}$  in.

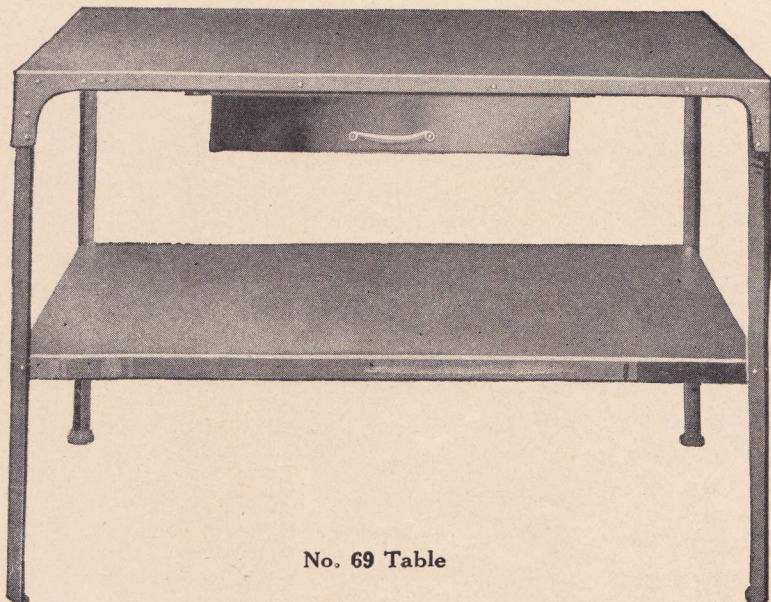
### PRICE LIST:

	Price	Code
Cabinet with 56 small drawers and 20 large drawers as shown in illustration (sizes of drawers given below).....	\$59.52	ENRIPIAR
1 Standard Cabinet without drawers.....	34.00	ENRIPIASEN
No. 010 Drawers, 1 $\frac{1}{2}$ x 3 x 6 inches, each.....	.32	ENRISCAMOS
No. 012 Drawers, 3 x 3 x 6 inches, each.....	.38	ENRISQUE

Liberal Discount Allowed.



# WALLACE No. 69 ALL STEEL TABLE



No. 69 Table

The steel drawer is a feature of this table that has created a great demand for the number. The drawer is of 20 gauge sheet steel, 3½ inches high, 22 inches deep and 26 inches wide. It is used largely for small tools and parts.

The table is 30 inches high and will support 500 lbs. in weight. Size of top 26 inches by 42 inches, made of No. 16 gauge sheet steel, reinforced by 7/8 inch angle steel and our special malleable iron corner braces. The legs are of 1 inch angle steel braced with band iron. The feet are turned in and smooth bottomed. The shelf is 25½ inches by 41½ inches, made of No. 16 gauge steel and is 13½ inches from the floor. The finish is rich **dark green enamel, baked on.**

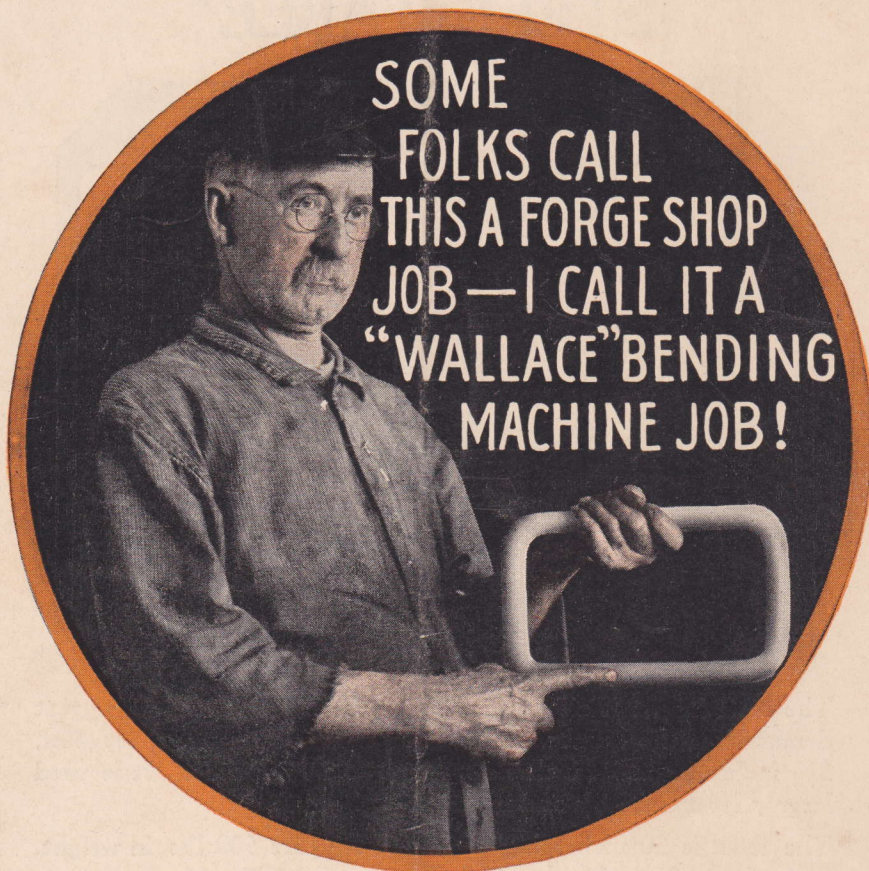
The drawers can be furnished with a lock at \$1.20 each or \$14.25 a dozen.

No. 69 is priced . . . . .	\$22.50 each	\$270.00 doz.
With lock on drawer . . . . .	\$23.50 each	\$280.00 doz.

DISCOUNT UPON APPLICATION



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Machines for Bending Reinforcement Bars for Concrete Construction; Pipe and Tube Bending; Wire Formations; Tees; Channels; Round, Square or Flat Bars; Angles; Special Shapes, etc.

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